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GENERAL DESIGN MEMORANDUM

GULFPORT HARBOR

MISSISSIPPI

DESIGN MEMORANDUM NO. 1

APPENDIX C

GEOTECHNICAL REPORT



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JUNE 1989

US Army Corps of Engineers

Mobile District

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ABSTRACT (Cartheus on reverse side it necessary and identity by block number)

This appendix considers all Geotechnical studies and data used to support the Studies for navigation improvements at Gulfport Harbor.

GENERAL DESIGN MEMORANDUM

GULFPORT HARBOR, MISSISSIPPI

APPENDIX C

GEOTECHNICAL REPORT



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GENERAL DESIGN MEMORANDUM GULFPORT HARBOR, MISSISSIPPI APPENDIX C GEOTECHNICAL REPORT

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GENERAL DESIGN MEMORANDUM GULFPORT HARBOR AND CHANNELS GULFPORT, MISSISSIPPI

GEOTECHNICAL REPORT

General Geology: Gulfport and the Mississippi Sound are located in the Gulf Coastal Plain Physiographic Province and are underlain by consolidated and unconsolidated sediments that range in age from Holocene to Miocene. The oldest (Miocene) sediments that outcrop in the coastal area consist of consolidated greenish gray to mottled clays interbedded with sand and gravel zones. The sand and gravel strata contain water under artesian pressure and are a major aquifer in the coastal area. In onshore and nearshore areas the Miocene section is several hundred feet thick and thickens offshore to several thousand feet. The Pliocene age Citronelle Formation unconformably overlies the Miocene deposits. The Citronelle Formation consists predominantly of red to reddish orange and yellow gravelly sand. Interspersed in the gravelly sand are lenses of white, gray, orange, and brown sandy clay. The thickness of the Citronelle Formation varies from a few tens of feet in offshore areas, up to possibly 200 feet in the subsurface in the vicinity of Ship Island. Semi-consolidated to unconsolidated sediments (sand, silty sand, clayey sand and clay) of Pleistocene and Holocene age overlay the Citronelle Formation in the Mississippi Sound. These sediments vary from only a few feet thick nearshore to several tens of feet thick offshore near the barrier islands, and blanket the bottom of the Mississippi Sound. The Holocene sediments range in thickness from 10 to 30 feet and are generally unconsolidated. Semi-consolidated Pleistocene age sediments underlie Holocene sediments and may be encountered at depths of 20 to 50 feet below sea level.

<u>Previous Investigations:</u> In 1956 twenty-one (21) splitspoon borings designated SS-1 through SS-21 were completed along the Mississippi Sound portion of the channel. These borings were terminated at depths ranging from -33 to -38 MLLW.

In 1962, sixteen (16) splitspoon borings with designations GSC-1 through GSC-16 were completed along the channel to depths between -35 and -38 MLLW. Undisturbed sampling was accomplished in some of the borings based on a review of the field logs. Most of the undisturbed samples were very difficult to retrieve due to the extreme softness of the materials encountered. Notes on the field logs indicate that the samples were forwarded to the Waterways Experiment Station (WES) in Vicksburg, MS. Unfortunately, it appears from their records that the samples were never classified or tested.

Field logs of borings without dates are on file that record the results of fifteen (15) other splitspoon borings completed in the past. These were designated P-1 through P-8, and 1, 1A through 6. Locations of these borings are shown on the boring layout plan as accurately as they could be placed based on historical files. Note that some of these borings were drilled outside of the channel on lines perpendicular to its direction. Samples were taken at random intervals and depths. Results of lab tests on the samples returned are provided in the summary sheet on page 158.

In 1976, several vibracore borings were completed outside of the channel, using 20 foot long tubes, in separate areas within the sound as part of an investigation as to the feasibility of island construction. Borings on the island sites showed 4 to 11 feet of soft clay and silt over firmer material comprised mostly of sand. The consensus was that island construction was feasible based on the types of material to be dredged and the existing foundation conditions.

In 1977, twelve (12) additional vibracore borings were completed. These were spaced along the channel from the west end of Ship Island out into the Gulf of Mexico.

Results of the previous investigations including locations of borings, test data and boring logs are contained in this report along with the most recent data which was obtained in 1987. This report consolidates under one cover the Mobile District's information about the types and characteristics of the sediments surrounding the present and future Gulfport ship channel(s).

Geotechnical Investigation, 1987: In the summer of 1987 fifty-five (55) vibracore borings were performed in support of the ongoing study to improve the Gulfport channels. Vibracore consisted of twenty to thirty feet of four inch diameter plastic pipe held vertical and vibrated into the in situ soils to retrieve continuous core samples. The vibracore tubes, filled with continuous core samples were transported to the Mobile District's Exploration and Support Section. In the warehouse, three foot long sections were cut from selected tubes and sent with sample cores intact to the lab for determination of the unit weight of the material and other analyses. The remaining tubes were split so that soil samples could be taken at each change of material. These samples were forwarded to the Division Laboratory for tests which included moisture contents, specific gravity, Atterberg limits, sieve analyses, etc. Clays encountered in the split cores were tested with a pocket penetrometer and a torvane shear device to provide indications of the shear strength of the sample. The results of laboratory testing are summarized and presented in tabular form in pages 151 - 156.

Locations of the holes drilled are shown on the boring layout plan, plates 1 through 3. From the layout it can be seen that many borings were spaced along and within the existing channel. These were to compliment and verify information shown on boring logs from drilling performed in the past investigations. Several other borings were completed in a grid pattern around and within the bar channel at the west end of Ship Island. These were to gather information to be considered in the realigning of the channel in that area; in an effort to remove some of the turns.

Also as part of this investigation, an alternative alignment (see plates 1 through 3) for the main channel was investigated. Thirteen (13) vibracore borings were completed to investigate the marine sediments which would have to be dredged to realign the ship channel to pass through Loggerhead Shoal at Ship Island, or what is known as "hurricane cut". Expectedly, the waters became shallower near the shoal, and sand was found to be the material of the upper layer sediments. Fine-grained materials were found to be more common as the distance increased from the shoal, toward either the Mississippi Sound or the Gulf of Mexico. For more information regarding the soils of this alternate channel alignment, refer to the boring logs in this report designated GP-45-87 through GP-60-87.

Reference: A copy of the article "Soil Analysis and Dredging" by Alf H. Sorensen is available in the District Library for reference. Information presented therein is useful for interpreting the results of the soils investigations for dredging projects. It is published in <u>Dredging and Dredged Material Disposal</u>, by the American Society of Civil Engineers, 345 East 47th Street, New York, NY 10017-2398. (Raymond L. Montgomery and Jamie W. Leach editors).

Anchorage Basin: The vibracore borings GP-1-87, GP-61-87, and GP-62-87 were drilled along the channel centerline within the anchorage basin. The soils encountered included soft black and gray clays of high plasticity (CH), firm gray clayey sand (SC), firm silty clay (CL), and poorly graded medium to fine grained sand (SP). Information on the boring logs indicates that a large portion of the material within the basin will consist of firm clays, clay-sands, and sands. Therefore, it's possible that the material down to elevation -40 MLLW might be suitable for use as hydraulic fill in some cases.

Gulfport Channel. Mouth of Harbor to Ship Island: Thirteen (13) borings were completed in the channel between the mouth of the harbor and Ship Island. These were designated GP-2-87 through GP-14-87. The predominant soils encountered were plastic clays (CH), poorly graded sands (SP), and silty sands (SM). Occasional pockets of clayey sands (SC) and silty clays (CL) were also encountered.

From the harbor to the Gulf Intracoastal Waterway it's typical to find six to eight feet of the clay overlying the sandy soils (SP & SM), although, along some stretches of the channel no sand was encountered down to the maximum project cut of -40 MLLW. Toward Ship Island the upper sediments are composed almost entirely of sand and silty sand, as can be seen on the soil profiles. Within the Mississippi Sound portion of the channel, the average in situ densities for the clays and sands tested were found to be 87 pcf and 126 pcf, respectively. Most of the clays encountered were soft to very soft, however, firm (CH) was encountered in borings GP-4-87 and GP-5-87. Sandy soils encountered ranged from loose to dense in place.

Ship Island Pass, West end of Ship Island: At least sixteen (16) borings were completed outside of the existing channel which navigates Ship Island Pass.

The fine-grained soils of the pass have an average in situ density of 92 pcf and include plastic clays (CH), clayer silty sands (SC), and silts (ML). The sandy soils average 126 pcf and include poorly graded sand (SP), and silty sand (SM).

Most of the clay material is very soft or soft, although a few layers of firm SC material was encountered, see boring logs GP-19-87, GP-21-87, and GP-26-87.

Gulfport Channel Beyond Ship Island. Gulf of Mexico. Seven (7) borings were completed along the channel alignment in the Gulf of Mexico. From the soil profiles it can be seen that the upper layer sediments, down to the maximum project out of -42 MLLW consist almost entirely of soft gray plastic clay (CH). This material averages 87 pounds per cubic foot in situ.

 $\underline{\text{General Summary}}$. All materials encountered can be dredged by hydraulic cutterhead dredge.

The existing sideslopes are quite variable in the Gulfport channel, ranging from 1V:3H to 1V:16H. It's recommended that the latest channel surveys be reviewed closely, and that these variations be considered in computation of quantities and in drafting contract plans.

The majority of the clay soils existing in the harbor and channel down to the maximum project cut do not appear to have characteristics that would be conducive to clay ball formation. Such judgement is based on the criteria given in the paragraph 4.1.3 of the reference article described this report ("Soil Analysis and Dredging"). Fifteen (15) of the 38 borings completed in the Mississippi Sound part of the channel, in 1987, encountered clays with characteristics similar to those identified by the author as being good for clay ball formation.

Sands in the bar portion of the proposed alignment passing the west end of Ship Island might be utilized for beach nourishment. The majority of the sand grains fit in a narrow size range between 0.1mm and 0.4mm, which in the Unified Soil Classification System is characteristic of a poorly graded, fine-grained sand (SP).

BORING LOGS

7

(Test

LEGEND

COARSE-GRAINED SOILS - MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE

GW GRAVEL-SAND MIXTURES, LITTLE OR NO FINES

GP POORLY GRADED GRAVELS OR GRAVEL-SAND MIXTURES, LITTLE OR NO FINES

GM SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES

GC CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES

SW WELL GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES

SP POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES

SM SILTY SANDS, SAND-SILT MIXTURES

SAME AS ABOVE WITH HIGH LIQUID LIMIT

SC CLAYEY SANDS, SAND-CLAY

SC-H SAME AS ABOVE WITH HIGH

FINE-GRAINED SOILS - MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE

INORGANIC SILTS AND VERY
FINE SANDS, ROCK FLOUR.
SANDY SILTS OR CLAYEY SILTS
WITH SLIGHT PLASTICITY

INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS

OL ORGANIC SILTS AND ORGANIC SILT-CLAYS OF LOW PLASTICITY

OH ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS

INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY,
GRAVELLY CLAYS, SANDY
CLAYS, SILTY CLAYS,
LEAN CLAYS

INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS

PT PEAT AND OTHER HIGHLY ORGANIC SOILS

NOTES:

DUAL CLASSIFICATIONS, E.G. SP-SM, GP-GM, ML-CL AND SM-SC, WILL BE SHOWN BY PLACING BOTH SYABOLS SIDE BY SIDE.

C-6

APERCEVIATIONS

0	AT	EST.	ESTIMATE, ESTIMATED
ACCUM.	AT ACCUMULATED ALTERNATING	EXCL.	EXCLUDING
ALT	ALTERNATING		EXTREMELY
AMG	AMCEITAR		
A DOG STY	APPROXIMATE APPROXIMATELY	7	FINE, FINELY
ASCII	ALTERNATING ANGULAR APPROXIMATE, APPROXIMATELY ANGILLACZOUS AUGER AVERAGE	Po	IRON
ALTS	ALES	PERE.	FEMALIC INCUS
AVC.	AVERAGE	P13.	PISSLE
AVG.	A V ECOURS		FILLED
B.A.	BASE OF ALLUVIUM		POPMATION
	BARRIL		POLIATION
			POSSIL. POSSILIFEROUS
			FLUID RZTURN
	BEDROCK		PRACTURE
	BENTONITIC		1 rate i una
BCE.		FRAG.,	TRAGMENT (3)
B.I.			• •
EXY.	BLOCKY	F/T	PI SHTAI LED
BL.	BLACK, BLACKI SH BOULDER		dame
ELD.	BOULDER	GEN.	CEMERALLY GLAUCOMITE. GLAUCOMITIC
B.O.X.	BOTTOM OF HOLE		
23. ·	EROTH EROTH ISH ERECCIATED		GRAY, GRAYISH
EREC.	ERECCIATED		GRAIN, GRAINED
REC.	NOUNTED ! READMENDED		GRADATIONAL
			CREEK, CREEKISH
Ç.	COARSE		CROUT
CAL.	CALCITE, CALCOREOUS CARBONACEOUS		GRAVEL, GRAVELLY
			CYPTUM
	CYAILA	G.W.	GROUNDFATER
	COMPLE		
C.D.	CORRECTED DEPTH		HIGH ANGLE
CEM.	CIDADA		HAMMER BREAK
AND AND			HARD
CIRCLE.	CIRCULATION	***	HICH, HICHLY
CLY	CLAYEY	.—	HEALED
			HAISER
CNTR. (3)	CONCIDITATION(3)	**	HORIZONTAL
	COMPACT	HYD.	HYDRAULIC
CCHC	CONCRETE		
CONCR.	CONCRETIONS		INCLUDING, INCLUDED
CONGL.	CONGLOSSERATE	INDT	INDURATED
COMP	CONTINUED	INIT	INITIAL, INITIALLY
CF24	CRIMBLY		INTERESED INTERESEDOED
CR D	CENTERED	INTLAM.	INTERLAMINATED
CTD.	COATED	IRR.	irrecular, irrecularly
4	DEPTH DEXSE	• • •	JOINT, JOINTS
		17D.	CETRIOL
D A.	DRILL ACTION		
DECOM.	DECOMPOSED	L/A	LOW ANGLE
DIAG.	DIAGONAL	LAM.	LAMINA, LAMINE,
DIS.	DISSEMINATED		LIMINATED
DEC.	DARK	LAY.	LAYER
DOL.	DOLOMITE. DOLOMITIC	L.C.	LOST CORE
DRL.	DRILLING	L.D.W	LOST DRILL WATER
DSTG.	DISINTEGRATED	LZA.	LEACHED
DT.	DRILL TIME	LIG.	LIGHTIC
D W L.	DRILL WATER LOSS	LIT	LITTLE
D.W.R.	DRILL WATER RETURN	L.L.	LIQUID LIMIT
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INC.	ENCOUNTERED	LS.	LIMESTIME

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                                                       SLIGHT, SLIGHTLY
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                                                       SILICROUS
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DRILLING LOS S.AD IVI.D.O. OP 1 SHEETS ROSECT GULFPORT. SHIP CHANNEL GULF PORT. MISSISSIPPI BEATION (Commissions of fining) M.D.O. TIL GAYUS FOR ELEVATION SHOWEN (TWO WILL) MILLING ARESECY M.D.O. TIL STOTAL HUMBER CORE SOXES TIL ELEVATION GROUND WATER N/A IRECTOR OF NOLE TIL ELEVATION GROUND WATER N/A IRECTOR OF NOLE TIL ELEVATION FOO HOLE TIL ELEVATION TOP OF NOLE TIL TOTAL HUMBER CORE SOXES TIL ELEVATION GROUND WATER N/A TIL ELEVATION TOP OF NOLE TIL TOTAL HUMBER CORE SOXES TIL ELEVATION TOP OF NOLE TIL TOTAL HUMBER CORE SOXES TIL ELEVATION TOP OF NOLE TIL TOTAL HUMBER CORE SOXES TIL TOTAL HUMBER TORE SOXES TIL TOTAL HUMBER CORE SOXES TIL	<u> </u>				,	mae Ar -	147A2-	-	Hele No.	GP-2-E
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(TRANSLUCENT) GULFPORT; VIEE, ESTEP!	ENG FOR	M 183	6 PR	٤v	OUS EDITIONS ARE OSSOLETE.		CO	LFPC	RT SHIP CH	HINEL!
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Dairi	ING L	og.	Å	S.A.D	INSTAL		v. D	Helo Ne. GP-3-8	7		
I. PROJECT	GIN E	800	۲	SUID CHANNEL	10. SIZE	AND TYP	E AV 817	THE CALCULATION TO THE COLUMN			
Z. LOCATION	GULFPORT, MISSISSIPPI 2. LOCATION (Coordinates of Similary A/ 244, 360 E 424, 530						M LLW				
<u>ا</u>	DRILLING AGENCY M.D.O.						12. HANUFACTURER'S DESIGNATION OF ORICL VIBRACORE				
4. HOLE NO.	101 F 10 12 11 11 11 11 11 11 11 11 11 11 11 11					AL NO. OF	OVER-	OSERUTATION UNDISTURSED			
S. HAME OF					14. TOT	AL NUMBE	RCORE	POXES			
			F	ULLER	IS. ELE	VATION G	ROUND W	ATER N/A .			
	DES. FROM VERT.					EHOLE		7-20-87 7-20-87			
F. THICKNESS OF OVERSURDEN					17. ELEVATION TOP OF HOLE -27.3						
a. DEPTH DA				·	19. SIGH	ATURE OF	INSPECT				
S. TOTAL DE				13.2'(EL40.5)				JONES			
ELEVATION	DEPTH	LEGE	ND	CLASSIFICATION OF MATERIA (Description)	u		EAMPLE HO.	REMARKS (Drilling time, water less, depth of weethering, etc., if significant)			
-27.3		m	П	·		W.c.	-'-		_		
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-405	13.2	Ш	Ц	(FIRM)					E		
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	=	1		Sample		BORATO		TING nd/or Remarks	F		
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		1		1 Density taken @ 2 El. 30.3-30.6					=		
		1		30,6-31.3		ray fa clayey			E		
]	=	1		31.3-32.8	Tan p	corly	graded	sand (SP)	Ë		
1	=	}		32.8-33.3	sand.	Densi	y (CH) ty tak	w/ a little en @ El. 32.3 fcr: 97.4	E		
	:	1		3 Density taken @	E1. 3	15.3 p	cf = 1	03.3	E		
	=	1		4 Density taken @ El. 36.3-39.3				05.7 In silty sand (SM)			
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	=	‡				ļ			E		
ENG FORM	1836	PRE	/10	US EDITIONS ARE OBSOLETE.		PROJEC		T SHIP CHANNEL HOLE NO.			
MAR 71			_	(TRANSLUCENT)				T. MIES, SSIFFI GP-3	-87		

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	Divisi	THETALL	ATION		Hole Me.	GP-4-8
Driffing for	5.AD		N	1.D.C		OF SHEETS
GULFPORT	RT SHIP CHANNEL	10. SIZE	H FOR EL	EVATION	VIBRACORE	TUBE
N. 240, 9	MISSISSIPPI	٦.		- M.L.	HATION OF DAILL	i
rilling agency	M.D.O.		VI	BRA	CORE	UNDISTURBED
OLE HO. (As also un en e rel Rio mandon)	GP-4-87			OVER- LES TAKE		
ANE OF DALLER	FULLER				TER N/A	
IRECTION OF HOLE		IS. DATI		STA	ATED IC	OMPLETED
ZVERTICAL - DINCE	DES. FROM VER	۲	_^		<u>-20-87.</u> -30.9	7-60-67
KICKHESS OF OVERBU		18, 707	L CORE	RECOVER	FOR BORING	
STAL DEPTH OF HOLI				NT &	JONES,	D.G.H.
EVATION DEPTH LEG	C. A. (18) (18) (18) (18) (18)	HALS	3,0000	SAMPLE HO.	(Drilling then, we weathering, other	RKS too lobs, depth of , if stool/leam?
	(CH) GRAY FAT CLAY (FIRM)				SAMPI TORVANE PENETRON	E *1 -0.29 TSF
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-50.9		·			B.O.1	٨
-50.9 1836 MG FORM 1836	PRINCIPAL AND OMOLETE.	·	PROJE GU	CFPC(B.O.I	WHE HOLE HO.

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		· - 7 £	iviš.	IIIISYALU	ARAC	*****	Hele He.	GP-5-1	87
	ING LO	6	S.A.D		١	1.D.C		OF SHEETS	
TOROJECT (SULF	PORT	SHIP CHANNEL	10. SIZE	AND TYP	EVATION	VIBRACORE	FUBE	7
LOCATION	Theres	***	MISSISSIPPI = 429,999	7		ML	-LW		
DRILLING	A CHIEF		M.D.O.	L	VI	BRA	CORE		
. HOLE NO. (Ac also m			13. TOTA	AL NO. OF			UNDISTURBED	7
HAME OF C	k.		GP-5-87	14. 707/	AL NUMBE	R CORE S	OXES -	<u> </u>	7
			ULLER	IS. ELEV	ID KOITA		N/A		
DIRECTION) DES. FROM YERT.	IS. DATE	HOLE		-20-87	7-20-87	1
THICKHES			···			P OF HO	11-29.6]
DEPTH OR					ATURE OF		Y FOR SORING	D.G.H.	4
TOTAL DE	PTH OF	HOLE				NT ¢	JONES.		1
LEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	ALS	****	SAMPLE HO.	(Deling ima, sold sectioning, etc.,	RKS w laos, dopth of il etanificano	
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	BIVIS	S.AD	HIVALLA	now" M	O.	٥.	OF SHEETS	
DHILLING LOS	OT SH		10. SIZE A	D TYPE	9 BIT	VIBRACOR	E TUBE	
GULFPORT	WIDD	1/22/22/			ML	.LW		
N 234	045	E432,079	12. BANUF	REPUBLIE VI F	SRA	CORE	· · · · · · · · · · · · · · · · · · ·	
E DRIFFING VERNEA	-,Μ⋅	D.O.	13. TOTAL	NO. OF	VER-	DISTURSED	UNDISTURBED	
A HOLE NO. (As and un es	drawing (it)	" GP-6-87	14TOTAL					
& HAME OF GRILLER.		LER	IS. ELEV	ATION GR	DUND A	ATER.NIA	COMPLETED	
S. DIRECTION OF HOLE			16. DATE	HOLE	107	7-20-87	7-20-87	
SVERTICAL DINC	FIHED	DES. FROM VERT.	17. ELEV	ATION TO	P 07 H	u -30.3		,
7. THICKNESS OF OVERS	URDEN			THE PAR	PHENCE	TOR BORING	D.G.H.	1
e. DEPTH ORILLED INTO	ROCK	.C (EL50.3)	19. 31077	AYA	77	FUONES		1
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ELEVATION DEPTH L	•			-		 	<u> </u>	E
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-50.3 2.	نىت:		£.	1	GUL	FPORT SHIP	CHANNE !	
ENG FORM 18	JO PRE	VIOUS EDITIONS ARE GROUET (TRANSLUCENT)		-	٣	PORT; MISS	isiffi o	
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DKIL	LING LO	x o	S.A.D	INSTAL	LATION	vi .D.	SHEET :] '
i, PROJECT	GULF	PORT	SHIP CHANNEL	10. 5126	AND TYP	T OF BIT	1000ACOOF THE	
GUL	FPO	<u>RΤ, λ</u>	1155;551PP1	1	an rost é	M L	SHOWN (THE OF MEL)	
S. DRILLING	AGENCY	2,60	3 <u>E 434 543</u>	12. MAH	UFACTUR	BB A	CORE	
MOLE NO.	(44 444		N(1,0.0.	13. 707	AL NO. OF	OVER.	DISTURBED UNDISTURBED	
AND NO PO			GP-/-87	14. TOT	AL HUMBE	R CORE	HOXES —	ł
		F	ULLER	18. ELE	VATION G	ROUND W	ITER. NIA	1
L DIRECTIO			DEG. FROM VERT,	IS. DÁT	E HOLE	1074	7-20-87 7-20-87	
7. THICKHES			· · · · · · · · · · · · · · · · · · ·	17. ELE	VATION TO		u - 30.9	
. DEPTH DA					ATURE OF	INSPECT		
. TOTAL DE	PTH OF	HOLE !	5.8 (EL 46.7)	<u> </u>			JONES	
ELEVATION		LEGEND	CLAMIFICATION OF MATERIA (Description)	LS	T CONS	SAMPLE NO.	REMARKS (Drilling time, unter less, dopth of Goddoring, etc., if significant)	
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-38.7			=4- 0-4 (505	さ		2	てい、ハヘミニーの、のぎてきず	F
-38.9	e-				·		アニーミン ベモーミュー	
- 39 5	=	::::	(もち) ミスム~		<u> </u>	<u> </u>		F
-40.c		::::	בספת בהאספי		<u> </u>	=		E
			ミスヘン (ミニー)					F
	: -	 ::::	(= = ~1)					E
	=	1:::						F
-42.1	11.2				[E
4.5.5	=		(と) ピアン				54VP_E =4	E
-42.9	.2_		عديد حديد الدين		 	_	TLF . 4\E- 0.09 TEF	E,
-43.4	=		OF 8 - CANDLE	(11	35	9	PENET IN ETER-	E
			Nauf.				0.4 755	
			FAT CLAY					F
	14 -		WIRTE ESHELL F	ドアマニ			SAMPLE #5	E
-45.6	=		istal of a columnia c	~-			-57. ANE-013 -5F	E
-46.1					59	5	PEVETS SWETER-	E
-467	_ =		1				C.5 T.5 F	E
	15. <u>e-</u>		B 2.H					
	=	}						E
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	_=	1				-	1	上
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INC PAR			<u> </u>		PROJECT		HOLE NO.	上
NG FORM	18 34							

GULFPORT SHIP CHANNEL GP - 7-37

Nuis s	ing Loi	·	S.A.D	Instant			Hole No. GP - = -	- ප
			SHIP CHANNEL	10. SIZE		A.D.		띄
GUL	FPOF	<u>v. 75</u>	ussissippi :	11. 637	UM FOR EC	EVATION L	VIBRACORE TUBE	ᅦ
DRILLING	227	733	E436 649	IE. WAH	UFACTURE	A'S OES	CORE.	ᅱ
NOLE NO.			M.D.O.	13. 707	AL NO. OF	OVER	IDISTURSED UNDISTURSE	
HAME OF	₩.		GP-8-87		AL NUMBE			{
			ULLER		VATION G			-
DIRECTION		_	DEG. FROM VERT	IS. DAT	E HOLE		7-20 -87 7-20-8	7
THICKNES	S OF OVE	ROURDE	¥			P OF HO	u-14.B	
DEPTH OF					ATURE OF	INSPECT		H.
			4.7'(EL, -29.5)		BRYA	-	JONES	
LEVATION	CEPTH	LEGEND	CLAMIFICATION OF MATERI (December land)	ALS	ASSO	MO.	REMARKS (Drilling time, water less, digith of westering, etc., it eignificant)	,
14.8		\min	•		 • •	<u> </u>		
	mlimilii		(ML)		147	l	SAMPLES :.2 3 & 4 WERE CUT; 3EALED & SENT TO 3.4 D LAS %	
17.8	بياسيا						WERY TREE	•
	hilin		(V.L)			2	WEHE VIELLY CLASSIFIED WHILE CONTAINED IN	
20.8	1111111						CLEAR VIERACORE	•
-23.8	ساستا		₹//2/		98	3	LAR TESTING	a y a
.25	,		(==)		57	4	2 (CH) 3 (Cn) 74 22 52 - MA, HY 4 - E4 16 33, MA,	ΥΗ,
	1000		(C-)GR47 F4T	(124		5	1-1-2 75 TOR 1-1-0.5 TE PENETROMETER- 0.5 TE	7
-29 <i>5</i>	11,111		8.0%	· · · · · · · · · · · · · · · · · · ·				
		SAMPL		-	ATORY T		or Remarks	
		1 2 3 4	17.8-20.8 Dk (20.8-23.8 Dens	ray fa	t clay ken @ E	(CH) ((CH) w/ some sand (A trace of sand (B pcf = 45.4 spg = 2.6 (B pcf = 65.9 spg = 2.6	
NG FORM	1111			· · · · · · · · · · · · · · · · · · ·	PROJECT		NOLE NO	
MAR 71	10 10	PREVIO	US EDITIONS ARE GROLETE.		I GUL	FPCR	T SHIP CHANNEL SP-	

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M.D.O. OF 1 STANDS OF DEEL PROMET SHIP CHANNEL SULFPORT, MISSISSIPPI 10. SIZE AND TYPE OF BIT VIBRACORE TUBE M.D.O. 11. BAYUB FOR ELEVATION BROWN INDEX M.D.O. 12. BANUFACTURER'S DEBIGNATION OF BRILL VI BRACORE VI BRACORE UNDISTURED 13. TOTAL NUMBER CORE BOXES 14. TOTAL NUMBER CORE BOXES 15. SLEVATION GROUND WATER N/A L. DIRECTION OF HOLE MYEATICAL DIRECTION DEEL PROMITERS 16. DATE HOLE 17. 20-87 16. DATE HOLE 17. 20-87 17. 20-87	
S. LOCATION (Coordinates or Signing) A 225.46-6.439.36- S. ORILLING AGENCY M.D.O. L HOLE NO. (As about an drawing title) GP-9-87 E. HAME OF DRILLER FULLER GP-9-87 IS. SEEVATION GROUND WATER N./A S. DIRECTION OF HOLE M.D.O. 13. TOTAL NUMBER CORE BOXES 14. TOTAL NUMBER CORE BOXES 15. SLEVATION GROUND WATER N./A G. DIRECTION OF HOLE MYEATICAL MINISTER 16. DATE HOLE 7-20-87 7-20-87 7-20-87	
E. ORILLING AGENCY M.D.O. L. HOLE NO. (As about an droom of direct of the control of the contr	010
L HOLE NO. (AS comm on drowing lifts) GP-9-87 E. HAME OF DRILLER FULLER G. DIRECTION OF NOLE DES. PROW VERT. 18. TOTAL HUMBER CORE BOXES 16. TOTAL HUMBER CORE BOXES 16. TOTAL HUMBER COME BOXES 16. DATE HOLE 7-20-87 7-20-87 7-20-87	1880
E. HAME OF ORILLER FULLER 16. TOTAL NUMBER CORE BOXES 16. SELEVATION GROUND WATER N/A 6. DIRECTION OF HOLE SEVERTICAL DINCLINED OEG. PROM VERT. 16. DATE HOLE 7-20-87 7-20-87	
6. DIRECTION OF HOLE WERTICAL DINCLINED DEG. FROM VERT. 16. DATE HOLE 157AFED 100MPLETED 17-20-87 7-20-87	
MYEATICAL MINCLINED DES. PROM VERT. 16. DATE HOLE 7-20-87 7-20-	
	87
7. THICKNESS OF OVERBURDEN 17. ELEVATION TOP OF MOLE -32.3	
8. DEPTH ORILLED INTO ROCK IS. TOTAL CORE RECOVERY FOR BORING 9. TOTAL DEPTH OF HOLE (4.3 (EL45.5) BRYANT & JOLIES	S.H
	3.0
(Description) (Description) (Description) (Description) (Description) (Description) (Description) (Description) (Description) (Description) (Description)	,••
-82.5	-
CML)BLACK LAYEY E.T	
2 - LAB TESTING	JE.
-35.3	F
-35.8 - 2 (SP), MA	E
-30.02 = -	F
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HILL IN TRACE SHELL	Ë
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E. C. H.	F
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NG FORM 18 36 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT SHIP CHANNEL HOLE NO	
GULFPORT SHIP CHANNEL SP-	9 -57

BWII	ING LO	. 0	V/II. 6 A C	INSTAL			Hele He.	GP-10-8	37
			S.A D SHIP CHANNEL	19. 517.0		D	O VIBRACORI	OF 1 SHEETS	4
GUL L LOCATION	.F PO1	RT, N	\\55\&\$\PP\	II. BATI	IN FOR E	EVATION	SHOWN (188 or 188	TUBE .	1
A BRILLING	° 218.	<u> 595</u>	£ 443, 533 .	12. MAH	U PACYUNI	A'S BESI	- L-W SHAYION OF BAILL		-
,			M.D.O.			BRA	CORE		1
A HOLE HO.	(As also w mb m)	न का कहता	GP-10-87	SUR	den samp	LES TAKE	2		_[
L HAME OF	DRILLER	F	ULLER	14. TOT	AL HUMBE	R CORE I	TER NIA	·	4
a DIRECTIO		E		16. DAT		18TA	ATEO IC		4
VERTI	CAL 🗆	INCLINED	DEG. PROM VERT.				-20-87	7-20-87	4
7. THICKNES						-	Y FOR BORING		-
6. DEPTH DE 8. TOTAL DE			6.0'(EL -42.6)	19. SIGN	ATURE OF	INSPECT	JONES	D.G.H.	1
ELEVATION		,	CLASSIFICATION OF MATERIA		1 0000			RKS	1
	6	4	(20000000			SAMPLE NO.	(Drilling time, well weathering, etc.	or less, dupth of , if eignificant)	
-24.0	-								E
	Ξ.						LAB. TEST	ING	F
	=		(Mm) DARK GRA	7			JAR CLASS I	L PL PI	E
) <u> </u>		NORSAN C E.LT	-			1 (CH) 8	3 27 5G.MA,	E
	5 -		(VERY SOFT)		}		2 - M		E
	_=		,					•	F
	=								E
	4=						<u>.</u>		F
-29.1							SAMPL		E
-29.6	=				70	1	TORVANE		E
	Ξ						PENETRON		E
	-						C.0 TE		E
	⁶ =								F
	=								E
	=								F
	=								E
-32,8	3.2 =								F
	=								E
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	_ =								E
	<u> </u>		(SM) SRAY EERO	NW					F
	=		SI_TY SALD (- 3	ヘミン					E
	_		(FIRNI)						F
-36.6	=								F
	.2 <u>-</u>					2			E
37.1						<u> </u>			F
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ENG FORM	1836	PREVIOU	IS EDITIONS ARE #800LETE.		GUL	FPCR	C SHIP CHAN	HOLE HO.	
			(TRANSLUCENT) C-	18	ج جالات	PORT	Mes. Seipp	ST 69-10	-د

						_	Hele No. GP - 11 -	87
	LING L	X	S.AD			M.D.	O. SHEET (٦
PROJECT	GULF	PORT	SHIP CHANNEL	10. 5121			VIBRACORE TUBE	Ħ
LOCATION	-F PO	HT , h	M55,651PD1	ľ		- M I	<u> </u>	7
L CRILLING	AGENCY	46	7 <u> </u>	12. WAN	UFACTUR	ER'S DES	GRATION OF SHILL	-
,			M.D.O	13. 707	AL NO. 01	OVER-	CORE .	٠,
and tile ma	(A 0 000 0		GP-11-87				2-138E.:-34R! —	_
NAME OF	DRILLER	F	ULLER	14. TOT	AL' NUMBE	R CORE	BOXES	4
L DIRECTIO	N OF HO						ATER N A	-
₩ VERTI	CAL 🗆	HCLINES	CES. FROM VERT.	ļ	E HOLE		7-20-87 7-20-87	1
. THICKNES	S OF OVE	RBURDE	H				u -33.9	1
COEPTH OF					ATURE OF	INSPEC		4
. TOTAL DE	PTH OF	HOLE	4.0 (EL47.9)		BRYA		JONES	1
LEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIA (Description)	u	T COME	SAMPLE HO	REMARKS (Drilling time, water less, depth of weathering, etc., if alguithment)	
-20 A		:		·	w.c.	70.	Towns ord. 11 algoritano	4
-33.9							_	F
	_						EAMPLE 1 & Z	E
,•	=		(64)		۱,	1	WERE CUT FEALED	E
	=		. = .,		43	'	E SENT TO E A.D	F
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-36.9	=					1	V ERACOPE THE	F
20.7						 		F
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		1.11				1	1	E
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	_						CLASS FED WHILE	
اممد	=	انتين	•			İ	CONTAINED IN CLEAR	F
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			(SM) BRCWNIE- SP	<i>17</i> ~				E
	8-		SILTY SAND				LAB TESTING	E
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	=						3 (SP.SM)	F
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-47.9	., =	1:111				1		F
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1		SAMPL	Ε	LABO	RATORY	TESTIN	NG	E
		*		lassi	fication	n and/	or Remarks	E
- 1	_							E
1	=	1					(CH) w/ trace •73 PL=23 PI=50	F
1	7						(CH) w/ (SM) pockets	F
							/ wood	-
	7	_	Densi	ty tal	ken @ E	1. 35.	.9	F
		2			ft clay	ey sar	nd (SC) w/ wood	F
	7		pcf=9 37.4-39.9 Brown		y eand	(5)() =	/ clay layers	F
1	=						5 Pcf=98.1	F
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G FORM	1974		IS EDITIONS ARE OBSOLETE.		PROJECT		MOLE NO.	上
MAR 71	.0.30	~#£4100	IS EDITIONS ARE OBSOLETE.				t ear channel	
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	1 Bivisi		REVALL	HAE .	***************************************	Hala He	. GP	
DHILLING FOC		S.AD	(N	1.D.C		SHEET OF \ 1	
GULFPORT	RT SHIP	CHANNEL	10. SIZE	NO TYPE	OF BIT	VIBRACOR	ופטד ש	E
					ML	LW BRATION OF DAIL	-	
DRILLING AGENCY	M.C	200		VI	BRA	CORE	L ,	. 1
HOLE NO. (As shown on	* * .		13. TOTA	L NO. OF EN SAMPL	OVER- ES TAKE	M 4	UNDIST	JASED
HAME OF DRILLER		GP-12-81		L NUMBE				
·	FULL	.ER	IL.ELEV	ATION GR		TER N/A		
DIRECTION OF HOLE	.INED	DEG. FROM VERT	ÎS. DATE	HOLE	7	- 20 - 87	7-20	-87
THICKNESS OF OVERS	<u></u>		17. ELEV	ATION TO		-28.8		
DEPTH DRILLED INTO				L CORE R		FOR BORING		D.G.H.
TOTAL DEPTH OF HO	2 0	.0 (EL488)		BRYA	NT ¢	JONES		
LEVATION DEPTH LE	GEND C	LASSIFICATION OF MATERIA (Description)	ius	*****	SAMPLE NO.	(Drilling time, a weathering, a	tARKS meter loos, da s., if eignific 9	erb of
-28.8	(M	L)B-ACK				LAB TES		<u>— E</u>
298		AT EY SILT				1 (SC)		<u> </u>
30.3	1111	R: SOFT)			1	2 (SM) 3 (SM-SC)	 22 15 7 1	M. J.VE
31.0 3			ļ			3 (5M-SC) 4	0 16 24.	YE,AM
31.0 8.2	1111							E
						EXMP.	돈 = 2	_
32.3	(5	M)GR.XY				TORVANIE		> -
328 4	511	LTY SAND			2_	PENETRO		
I	(5	CFT)				0.25	75 =	: E
킈		-		,				F
=:								E
التان								F
I I						1		E
-35.8 7	11.1							F
3								. E
s - 3	//// - <u>-</u>	コンピスシスコー				1		·
32	<i>277</i> 01	RAY CLAYEY	;	}				E
<u>-=</u> 8		ND (SCFT)				SAMP	_= *5	. E
38.5		### # · - · · · /	:	<u> </u>	1	ーンデームへき		
39.0				21	ŝ	FENETRO	METE	
						0.4	7.5.F	F
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14 -		=_) EROWL EGE						E
#	//// S>	MDY 5-47 (5.	ー・					E
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-44.6	//// ws	CD FRAGS			<u> </u>	TORVANE		-
45.1				54	4	FENETR	CVIETE	:R- ' E
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-49.8 20.00 ENG FORM 1836	((())			PROJEC	<u> </u>	1 =	THO	LE NO.
rusa 1871 .	BENIALL FR	TIONS ARE OBSOLETE.				HO SHE TI	ANNEL C	

DIVISI (INSTAULATION	Field No. 372 3207
DRILLING LOG S.AD M.D	O. OF I SHEETS
CHARLED GULFPORT SHIP CHANNEL 11. BAYUB FOR ELEVATION	VIBRACCRE TUBE
2. LOCATION (Consequence of Station)	LEW
N 205, 140 E 45 2, 2/2 12. MANUFACTUREA'S DE	IGNATION OF DRILL
P DRILLING AGENCY N. D.O. VIBRA	CORE
13. TOTAL NO. OF OVER-	EN 2 UNDISTURGED
14. TOTAL HUMBER CORE	SOXES
FULLER 18. ELEVATION GROUND	
	ARTED COMPLETED
VERTICAL DINCLINED DES. FROM VERT.	7-20-87 7-20-87
7, THICKNESS OF OVERBURDEN	· · · · · · · · · · · · · · · · · · ·
E. DEPTH DRILLED INTO ROCK 19. SIGNATURE OF INSPEC	
9. TOTAL DEPTH OF HOLE 19:4 (EL 52.6) BRYANT	
ELEVATION DEPTH LEGEND CLASSIFICATION OF MATERIALS SAMPLE NO.	REMARKS
a b c d A	(Drilling time, major lines, depth of meastering, etc., if eignificant)
-33.2 -	F
	F
	F
.] (SM) GRAY	LAB TESTING
JUNE 77-15	TAR CLASS PLF: TOO SIEVE
1 1 1 11:111	I (SP) NP NE NE - MA
- 3 (FIRM)	2 (CH) 56 16 40 55
-36.2] [][]	J E
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-36.7 	† E
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-38.4	
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CCH) GRAY	
FAT CLAY (F.R.M)	
FAT CLAY (FRAN	. E
WITRACE WOOD	E
	\ <u></u>
FRAGS	E
	<u>E</u>
	F
	į F
12	
	SAMPLE #3
27 2	TOPVANE-CETSF
-46.7	HOENETROMETER-
	0.5 7.5.5
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16-	=
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(52.00) 19 4	
B D. H.	
3 3 B O. H.	RT SHIP CHANNEL SP = 2

		SIVI		INSTALLA			Hele No. GP 17 - 1
DMILLI		3	5.A-D	-		(:D C	
GULI	FPOF	27 MI	SHIP CHANNEL SSISSIPPI	11. DAYU	TOR EL	KAÝLIOM	PHOSE (LESS A THE)
HOITAGO.	203	189	£ 45=,340	12 MAHU	FACYURE	N. L Nebber io	HATION OF DRILL
RILLING /	MERCY		N.D.O	10 2624			LORE UNDISTURSED
HOLE NO. 1	*****	-	GP-14-87	BURD	EN SAMPL	ES TAKE	OBSTUREED UNDISTUREED
HAME OF D	RILLER	Ξì	JLLER			CORE B	TER NIA
DIRECTION	OF HOL		JEEK.	IS: DATE		\$ STA	TED COMPLETED
S VERTIE	AL D	HELINED,	DE6. FR6W YE	RY			<u>-20-87 7-20-87</u> • -33.3
THICKNESS	07 OV	RBURSEN	***************************************				FOR BORING
DEPTH DR			9.0 · (EL 52.3			INSPECT	JONES
EVATION		LEGEND	CLAMIFICATION OF MATE		3 0000		REVARES
	b		(Perenjetan)	·	**************************************	SAMPLE NO.	(Drilling time, water love, depth of weethering, etc., if significant)
33.3	Ξ						SAMPLE 1,2 É3
	=						WERE CUT, SEALE
	. =].:::	(40)		n=	1	E SENT TO E A.D.
		ا∷∴¦	(EP)		25	'	LAE IN VIERACORE
	-	:::					_
	=	1::::					TUBE.
36.3	3-	$\left\{ \cdot,\cdot, ight\}$				 	
	=].∷.[]	20.3 TO 49.0
]]····					WERE VIEUALLY
	=	1∷∷ ¦				*2	CLASSIFIED WHILE
	:		(== `,			1 -	CONTAINED IN
	=	: -∵::					CLEAR VIBRACOR
	=	3::::1				1	TJEE
39. 3	4-]					130 -
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	=	-	(59)		20	1 -	2 - MA
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<u> </u>	9-	1111			 	1	1 .
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	-	*///					
	=		(CH) GRAY		1		EAMPLE #1
<i>ia</i>	1 3	!///	=AT =-4~				". LYE-019 TS
44.5	1 :	4///	(5) (50F	: 1)	37	14	SENETT: WETER-
45.0	∤ _ :	:////	(2)(2)	` /	H=	+	2.4
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	=	3///			1	1	1
	-	<i>:////</i>					منفته مماد مرمد
	:	-////					y see also parco-
	-	7///	9		1		
	:	1///					
	15-				1	1	
	-	-///	(CH) GRAY			1	
		<i>::////</i>	FAT CLAY	(SOFT)			
	-	-///		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1		
] :	=///	6		1		SAMPLE #5
503	4 -	7///	9		1=	+-	-TOPVANE-0.27 TS
50.8]	3///	2		37	15	PENETRONETER-
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GULFFORT, WHEE STIFF GP-27-37

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MOJECT	GULF	PORT	SHIP CHANNEL	10. 112	E AME TO	101.1).O.	OF 2 SHEETS
الاي	LFPO	RT,	SHIP CHANNEL	11. BA	YUS FOR	ELEVA!	VIBRACCE	E TUBE .
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Holo No.. GP.-25-87 DHILLING LOG S.AD M.D O. OF 2 SHEETS GULFPORT SHIP CHANNEL
GULFPORT, MISSISSIPPI
LOCATION (Condenses of Justice)
1/171, 95.2 & 451, 958
B BRILLING AGENCY M.D.O. 11. DATUM FOR ELEVATION SHOWS THE MILLW VI BRACORE M.D.O. 13. TOTAL NO. OF OVER- METURED 2-JAR BURDEN SAMPLES TAKEN 2-JAR GP-29-87 HOLE NO. (As also 14. TOTAL HUMBER CORE SOKES .-HAME OF BOILLES FULLER DIRECTION OF HOLE IS DATE HOLE STYERTICAL MINCLINED 17. ELEVATION TOP OF HOLE . THICKNESS OF OVERBURDEN 14. TOTAL CORE RECOVERY FOR . DEPTH DRILLED INTO ROCK 19. SIGNATURE OF INSPECTOR
BRYANT & JONES TOTAL DEPTH OF HOLE 19.0 (EL. -52.1 REMARKS
(Drilling time, major boos, depth of meathering, etc., if significant) CLASS, FICATION OF, MATERIALS -33.1 SAMPLES 162 WERE CUT, SEALED 161 (ML) \$ SENT TO S.A.D. LAB IN VIERACORE TUBE. -34.1 20,5 75 2 3.0 WERE VISUALLY CLASSIFIED WHILE CONTAINED IN 85 (M-) CLEAR VIERACORE ていらを. -39.1 (ミし) ビードリス - 40 1 clayey silt 79 40.6 (VERY SOFT) -91.1 PL (CH) (SM) NP NP NP,MA VIBRACORE (SM) GRAY SNAP. 10 SILTY SAND (FIRM) 2 (CH) 83 22 GI MA, HY W/TRACE SHELLS 45.1 12 4 44.6 23 -52.1 2.C.H SEE LAB. TEST. ON SUT. 2 ENG FORM 18 36 PREVIOUS ENTITIES ARE DESOLUTE.

GULFPORT SHIP CHANNEL SP-29-37 GULFPORT, MISSISSIFFE

(TRANSLUCENT)

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S. DRILLING	AGENE	974	M.D.O.	118 828			CORE
4. HOLE NO.	(A e about			18. 70	AL NO. OF		
B. HAME OF			GP-30-87	}	AL HUMBI	· · · · · ·	
		F	ULLER				ATER N/A
6. DIRECTIO			DES. FROM VERT.	IS. DÁT	E HOLE		7-22-87 7-22-87
7. THICKNES				17. ELE	VATION TO		
S. DEPTH DE							Y FOR SORING 1//A 1
9. TOYAL DI	PTH OF	HOLE !	9.7'(EL38.3)	19. 310	BRYA		JONES D.G.H.
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	عاد	1 Cand	SAMPLE NO.	REMARKS (Drilling time, unler less, depth of
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MAR 71	10 70,	PREVIOU	IS EDITIONS ARE OSSOLETE.	48	GULF	PCR	T SHIP CHANNEL
			(TRANSLUCENT) C-	70	のグアンシュ	ただて	, viitti tiitipi - GP-30-3

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SP-31-87 DRILLING LOG S.A.D M.D O. OF 2 SHEETS ANDIET GULFPORT SHIP CHANNEL
GULFPORT, MISS; SSIPPI
LOCATION (Coordinates of States)
N 131, 836 E 449, 907
DRILLING AGENCY M.D.O. 10. SIZE AND TYPE OF BIT VIBRACORE TUBE 11. BATUR FOR ELEVATION SHORN (IRM W ... M. L.W.

12. HANUFACTURER'S DESIGNATION OF DRILL

VI BRACORE

13. TOTAL NO. OF OVERBURDER SAMPLES TAKEN M.D.O. HOLE NO. (As alwans an GP-31-87 14. TOTAL HUMBER CORE BOXES ---FULLER IS. ELEVATION GROUND WATER NIA & DIRECTION OF HOLE 7-24-87 16. DATE HOLE WERTICAL MINCLINED. 17. ELEVATION TOP OF HOLE 7, THICKNESS OF OVERBURDEN IS. TOTAL CORE RECOVERY FOR BORING e. DEPTH ORILLED INTO ROCK 19. SIGNATURE OF INSPECTOR
BRYANT & JONES 9. TOTAL DEPTH OF HOLE 24 . 5 (EL. - 42.3) CLASSIFICATION OF MATERIALS REMARKS
(Drilling time, water lose, depth of westlering, etc., if eignificant) ELEVATION DEPTH LEGEND -17.8 (SP)LIGHT GRAY LAB TESTING FOORLY GRADED CLASS LL PL PL PL 100 JAMES NO. SAND (FIRM) 2 (CH) 115 39 76 98 - 24.3 (CH) GRAY **FAT こーペ** (VERY SOFT) シアンション TOFIVANE- OIL TOF 2 .04 -RENETROMETER-J.S TSF -37.8 ENG FORM 18'36 PREVIOUS EDITIONS ARE OSSOLETE GULFPORT SHIP CHANNEL TO GP-21-37 C-49 (TRANSLUCENT) SULFPORT, WISE, STIFF!

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GP-52-87 M.D.O. DHILLING LOG S.AD OF | SHEETS GULFPORT SHIP CHANNEL
GULFPORT, MISS; SSIPPI
LOCATION (Coordinage of Jissipp)
N 19: 354 E 448, 578 10. SIZE AND TYPE OF BIT VIBRACORE TUBE MLLW 12. MANUPACTURER'S DESIGNATION OF DRILL DRILLING AGENCY VIBRACORE M.D.O S. TOTAL NO OF OVER- DETURBED BURDEN SAMPLES TAKEN HOLE HO. (As also me on dra GP-32-87 14. TOTAL HUMBER CORE BOXES ---HAME OF DRILLER IS. ELEVATION GROUND WATER, N/A FULLER 16. DATE HOLE 7-22-87 DES. FROM VERT. METICAL MINCLINED 24.4 17. ELEVATION TOP OF HOLE 7. THICKNESS OF OVERBURDEN IS. TOTAL CORE RECOVERY FOR BORING 6. DEPTH DRILLED INTO ROCK 19. SIGNATURE OF INSPECTOR
BRYANT & JONES S. TOTAL DEPTH OF HOLE 16.4'(EL. -40.8) CLASSIFICATION OF MATERIALS -24.4 (SM)GRAY SILTY SAND (FIRM) WITRACE SHELL FRAGS. 34 24.9 CLASS IL PLPI (SP-5M) - --27.9 2 (CH) 77 24 53 95 3 (SM) - --(CH)GRAY アメイ いしとく CLERY SOFT) SAMPLE AZ たこ、4.NE-0.074 TSF 43 2 さんにおいくだけで 32.9 S.C T.E.F -38.1 (SM) SRAY 389 SILTY SAND (FIRM) -21.4 WISOME SHE _S -40.5 B. Q.n. ENG FORM 1836 PREVIOUS EDITIONS ARE OMBLETE. GULFPORT SHIP CHANNEL GP-32-57 C-51 GULFPORT, Wee, St. FF.

(TRANSLUCENT)

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DRILLING LOS SOUT " ATLANTIC N 00 16. SIZE AND TYPE OF SIT GULEPORT SHIP CHANNEL STUDY MLLW N. 176,987 E 459:906 VIBRACORE MOBILE DISTRICT GP-37-87 14 TOTAL HUMBER CORE BOXES ... N/A FULLER C IS ELEVATION GROUND WATER NA SE EATE HOLE 7-22-87 MARALICAL MINCLINED 17. ELEVATION TOP OF HOLE -29.6 . THICKNESS OF OVERBURDEN 2. TOTAL CORE RECOVERY FOR SORING. N/A DEPTH DRILLED INTO ROCK TOTAL DEPTH OF HOLE 13.5 (EL. -43.1 Dandun R. laner CLAMIFICATION OF MATERIALS FEGEND LAB TESTING CLASS (CH) 1 179 32.6 NOTE: THREE (3) (CL) GRAY SAMPLES, CUT SANDY CLAY (SOFT) SEALED & EENT Z TO DIV LAB 2.0 - CL -35.6 6.0-CL 30 7.0-CH 3 #541 FLE #1 たれ、ムンミーロ・ロラ てらっ <u>-38</u>.6 PEVETS ONETES. 1 * - 39.1 (CH) GRAY o.ce tsf FAT CLAY -41.6 2 ISMIGRAY SILTY SAND -43.1 (MEO) 804 55 LABORATORY TESTING SAMPLE Visual Classification and/or Remarks El. 29.6-30.1 No Recovery Dk gray soft fat clay (CH) w/ trace of sand.
Density taken @ El. 31.6, pcf=29 LL=117 PL=28 PI=98 30.1-32.6 Transing 200 sieve=98

Dk gray soft fat clay (CH) w/ trace of sand

Density taken @ El. 34.6 pcf=37.7 % Passing 200

sieve =99.7 32.6-35.6 Dk gray soft fat clay (CH) w/ trace of sand Density taken @ El. 37.6 pcf=41.7 % Passing 200 sieve = 99 LL=116 PL=32 PI=84 35.6-38.6 PROJECT ENG PORM 1836 PREVIOUS EDITIONS ARE OGNOLETE.

GP-37-31

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GULFADAT SHIF CHANNEL STUDY

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1	ING ÁGENCY N	10F	SILE DISTRICT	13. TOTAL NO OF OVER- BURDEN SAMPLES TAKEN				LUMB	STUR	• • • • • • • • • • • • • • • • • • • •
L	NO (As shew	47 4 7 4 8	remine title: VC-Z-78		<u>: </u>					
L	OF BRILLER			14. TOTAL NUMBER CORE BO 18. ELEVATION GROUND WAT				,		
	TION OF HO		NED DES. PROM VERTA	16. DATE HOLE STAR	30	-7	7 168	3-3	0-	77
7 THICK	NESS OF DV	ERBUR	IDEN	17. ELEVATION TOP OF HOLE	•3	1.0				
	ORILLED II			18 TOTAL CORE RECOVERY 19, SIGNATURE OF INSPECTO	•	TY:				
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* c	°253"	3YM	CLASSIFICATION OF (DESCRIPT)		0 .	(BL)		ER FO		80
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:5%	3.0	#	GRAY FAT CLAY (CH	NW SOME SAND						
	4.0		LL 9G, PL 28, PI	GB					<u> </u>	
	50		TR. SHELL			.			Ì	
	6.0		GRAY PRIGRO SILT	Y 5A .3(5P-5M)						\vdash
47	-		DK BRAY SANDY FAT	W(HS, YALE						
			TR. SHELL	•						
55			פקאץ פאטטי דיד כ:	-A> \C-	'√:	38	مرد	RE	٥	
	9.0		DARK GRAY SAVEY	テムナ こしべく くことう						
	:C.5-		WITR SHELL						<u> </u>	$\mid - \mid$
	,C,D	72	GRAY CLAYER SAND	(8C) W. TR						
	12.0		SHELL							\vdash
	_		SRAY CLAYER BAND (DECOM. WOULD EN	(50 A TF						
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E LEGAT	#655E	"44 °"	Training 7. 25 20 101 17	r wanddaet daen e eesic	1 8 4 1 XM		<u> </u>	
3 DRILLI	HO AGENCY	BILE	- Distinct					
A HOLE A	(O (As show number)	on de		Single Compact Lands				
S HAME C	FORILLER			L TOTAL HUMBER FORE BO L/ELEVATION GROUND WAT				
	TION OF HOL		CO GES PAGE FERT	S GATE HOLE	• 65	-	COMPLET	10
	ESS OF OVE			ELEVATION TOP OF HO.	-21	.7		
	DRILLED IN		CK I	TOTAL CORE RECOVERY	7 00 BO	#1HS	<u></u>	
9 TOTAL	DEPTH OF	HOLE	.5.5'				PEHETA	4-61
₩ C %	06PTH (-)	SYM	CLASSIFICATION OF W		0		₽€₽ F00 40	
	•	1/2	GRAY ORGANIC CLA	× (0H)				
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	2.0		GRAY FAT CLAY (CH	WILITTLE			$\bot \bot$	_ _
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181			GRAY ORGAINIC CL	PAY (CH)	}		1 1	
+48	6,0					- ` ´	++	
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48_	9.0		GRAY SANDY FAT O	CLAY (C- \W	\vdash			
32	-		GRAY CLAYEY SAND	(54)	1	IBRA	COR	D
			LL=30, PL=15, P'112				1.	
			GRAY CLAYEY SAN) (5c.		_	4-4	
	12,0	m	BRO S'LTY BAN	D 50 W. TE	1	-		
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	NG LOG-	\$	South Atjantic	INSTACLATION Mobile Dis	strict			SHECT OF	SHEE	: 75
GULF		SHI	P CHANNEL	ID SIZE AND TYPE OF PIT	HOWN (TEH O	HEL)			_
2. LUCATI	ON (Cuerdina	19 891	SINION SINIPPI	12 MANUFACTURER'S DESIGN	ATION		MSL	<u>.</u>		_
3 CAILLI	NO AGENCY	-	MOBILE DISTRICT							_
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S. HAME O	P DRILLTR		VC-4-77	14, TOTAL NUMBER CORE'EU 15, ELEVATION GROUND WAT		7 73				
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	ESS OF OVE			IS-TOTAL CORE RECOVERY		· · · ·				<u>.</u>
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			CLASSIFICATION OF	MATERIALS	. 57/	NOAR	-	NET!		N
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	1.5	W.	GRAY ORGANIC CLA	AY (OH)	-	\vdash			_	
19:			GRAY FAT CLAY (CH)W LL=138, PL=35, PI=	TR. SAND	1		İ			
	25] 3.0 _	10						ᅱ	-	
177	3.5		DK GRAY ORGANIC (GRAY FAT CLAY (CH) SAND.& SHELL	CLAY (OH)						
 87 -			SAND & SHELL			\Box				
74	-		GRAY SANDY FAT C	LAY (C-1)						
79	6.0		GRAY FAT CLAY CC	HJW/LITTLE			-			
36	-		LSAND. GRAY FAT CLAY (CH	NW/L:TTLE				,		
	_		GRAY FAT CLAY (CH SAND, LL 92, PL	29, PI = 63	Ì					
			GRAY SANDY FAT CLAY	(CH)W/TR. SHELL						
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			GRAY CLAYEY SAND SHELL) (SC) 4.71K		V !!	РΤΑ	3	76.	
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N 19	3,000	·e	452,250							
30 F	ring Log		South Atlantic	INSTALLATION Mobile DI	strict			SHEC		
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IZ, LOCAT	ION (Cuardin		IISSISSIPPI				MSI	-		
3. DRILL	ING AGENCY		MOBILE DISTRICT	12 MANUFACTURER'S DESIGN	ATION	OF DE	HLL			<u> </u>
and till	NO. (As show	7 90 di	awing title	13 TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN	01870	A 8 E D		יםאט	STURB	ED
S. NAME	OF DRILLER		VC-5-77	14 TOTAL NUMBER CORE BO						
	TION OF HOL			IS DATE HOLE			100	MPLE	7 6 0	
	NESS OF OVE			17. ELEVATION TOP OF HOLE	-24	.0				
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₩ c %	DEPTH	SYM	CLASSIFICATION OF IDESCRIPTI		0 57	4864) 4869 20	WS P		07)	N 60,
142-	1.5		GRAY ORGANIC CLAY	(OH)						
120	1,51		GRAY FAT CLAY (CH	W TR. SAND						
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96	=		GRAY FAT CLAY (CH)							
62	6.0		-					\dashv	_	
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T PROJECT		₹Т	SHIP CHANNEL	10. SIZE AND TYPE OF PITE. DAYUM FOR ELEVATION		CTER .	· NEL)			=
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S. BRILLI	HG AGENCY	 	SILE DISTRICT	12 MANUFACTURER & DE						
ie work i	HO. (As show	on dr.	awing title? VC + 6 - 77	13. TOTAL NO. OF OVER- BURDEN SAMPLES TAI	CEÑ DISTI	J# \$ E D		UNDI	TURB	·°
	OF DRILLER		70 10 //	14 TOTAL NUMBER CORE		~				_
6 DIRECT	110H OF HOL	E			ARTED		į co	4P L E 7	£ D	
L			RÔ DEG, PROM VERT.	172 ELEVATION TOP OF H	out - ~	a =	<u>_</u>			一
	DRILLED IN			IS TOTAL CORE RECOVE	RY FOR B					国
			14.01		ATURE OF INSPECTOR JOHNNY TYSON					
ψč	DÉPTH	SYH	CLASSIFICATION OF							*
*	(-)		IDESCRIPTI		0	20		40	· · · · · · · · · · · · · · · · · · ·	-60
	}. Ⅎ		DARK GRAY ORGANIC	CLAY (OH) W	′					
	1.5	44	GRAY FAT CLAY (CH) LL + 107. PL = 27, Pl = 80	WITE SAND	-			ļ		1
147	2.5	<u> </u>				[_		
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38]]		DK. GRAY FAT CLAY SAND	CHINAIR	<u> </u>					
	9,0]				
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	-		GRAY CLAYEY SA							
	12.0	//	SHELL							
25	•		GRAY CLAYEY 54	(NE (E 4)					`	
	14.0		LL=40, PL=15 Pl	= 25						
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	ING LOG-		South Atlantic	Mobile Dis	trict		- 1	SHEET	SHEC	7.5
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2. LOCAT	ION (Coordina	100 01	Station	12 MANUFACTURER'S DESIGN	Ĺ	, N	15L			_
3. ORILLI	NG AGENCY	ر <u>در د</u>	SSISSIPPI	·		-	_			_
A HOLE N	O (As shown		MOBILE DISTRICT	13. TOTAL NO OF OVER- BURDEN SAMPLES TAKEN	916746			UN 01 1 1	ruji 6 E	اـــُــ
	OF DRILLER		<u>vc-7-77</u>	14 TOTAL NUMBER CORE BOX				<u> </u>		_
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	ess of ove			17. ELEVATION TOP OF HOLE						<u></u>
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146		7	GPAY FATCLAY (CH)	W/TR SAND			T	1	T	\dashv
	1.0	772	LL=119.PL=37, PI=8	2	-+					\dashv
76			DV CON ODERNIO	CI AV(011)	1	1			- 1	}
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l-a-	ا ا		GRAY FAT CLAY (C LL=101, PL=30, PI=	近る、TR. SAND	\neg	\neg		_	$\neg \uparrow$	\exists
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39	7,0		GRAY FATCLAY CALLELOLPLE SO, PL	TWITH SAND						
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102	j 1		DK. GRAY FAT CLAY	(CH) A , TR. SAND		VI	SRA	cq	4ED	_
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<u>:</u>	1		GRAY FAT CLAY (CH.) LL= 104, PL=34, P1=7	CO TIRE LAND					_	{
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N17	13,459	3 1	£ 459,083							
1	ING LOG	\$	South Atlantic	INSTALLATION Mobile Di	trict			OF !	SHEE	:75
GUL	FPOR	TÎ;	BHIP CHANNEL	10 SIZE AND TYPE OF PIT	HOWN 7	784 -	FEL)			
GU		RT,	MISSISSIPPI	12. MANUFACTURER S DESIGN	ATION	OF DRI			.	
	HO AGENCY	-	י בוֹבּוֹבִיוּ	13. TOTAL NO. OF OVER	, DIST	FEED		UNDIS	TURBI	
end file	nanejni	90 40	************************************	12. TOTAL NO. OF OVER-	:					\dashv
S. NAME (PORILLER			15 ELEVATION GROUND WAT				<u> </u>		
i	TION OF HOL		ED DE6, FROM VERT.	IS, DATE HOLE	7 6 D		CON	PLET	10	
	ESS OF OVE			17. ELEVATION TOP OF HOLE						
	DRILLEG IN			19. SIGNATURE OF INSPECTO	POR BO	TYS	<u> </u>	N		
S. TOTAL	DEPTH OF	HOLE	18.8,			ANDARE		META		;-
* C	DEPTH	24 ju	CLASSIFICATION OF (DESCRIPT)		٥	(#LOY	IS PE	# #00 40)T)	60
	<u> </u>		GRAY FAT CLAY (CI	WW TE SENT		T	Т	7		_
143			LL = 108, PL = 32, PI				+	┪		\dashv
183	2.0		DK. GRAY CROANIC		L					
	3.0		GRAY ORGANIC CL							
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15G	8.0	1/1	GRAY ORGANIC CL		一	+++	-			
130			DARK GRAY FAT C	FAA (2 4)			-	- [.	
38	-		GRAY FAT CLAY (C	ヒハン・ココ モタシコ	V	BF/	90	วล	: D	
35			LL= 86, PL=27, Pl=				_			
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MOS FOR	4 927 J.	_			HOL	E HO. 1	$^{\circ}$	- 5	5 - 7	ノ学

N 175	5,292	Ę	= 461,575		•						
	ING LOG	-\$	South Atlantic	Meble D	etrict		-	OF !		.71	
GUL	FPOR	<u> Ť</u>	SHIP CHANNEL	10. SIZE AND TYPE OF PIT	HOWN	TER .	HSL)	<u> </u>		\dashv	
GUL	FPOR	T,MI	SSISSIPPI	12 MANUFACTURER'S DESIGN	HATION	of 64	166 -				
L	NG ĀGENCY		MOBILE DISTRICT	13 TOTAL NO OF OVER-	, 01870	ROED		UNDI	TURB		
and life	ID. (As show number)		VC -9 - 77	14 TOTÁL HUMBER CORE BO						\dashv	
Ĺ	OF DRILL*R			IS. ELEVATION GROUND WAT	ER					コ	
1	TION OF HOL		RD DESC FROM VERT.	IE DATE HOLE			i co	HP683		\dashv	
7 THICK	ESS OF OVE	REUR	DEN	17 ELEVATION TOP OF HOLE				<u> </u>		\dashv	
	DEPTH OF		15 8'	19. SIGNATURE OF INSPECTO							
w c	,		CLASSIFICATION OF	MATERIA! S	37/	HDAR	DIP		OLT AF	;	
%	(-)	SYM	IDESCRIPTI		0	20	W. P.	40		60	
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	1.8		DK.GRAY ORGANIC	CLAY (OH)						\neg	
عمد			GRAY FAT CLAY (CM)	W / TR. SAND	1						
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123	-		GRAY FAT CLAY(CH)							{	
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.36	-		GRAY FAT CLAY (CH				'				
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117	-		GRAY FAT CLAY (CH	W/TR SAND							
	12.0										
78	-		GRAY FAT CLAY (CH)	<u> </u>			-	-		
12:	-		SRAY FAT CLAY								
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FAGIST CHANNEL CHANN	901	ING LOG	\$	South Atlantic	Mebile Di	strict					.,,
ILCORATION FOR THE PROPERTY OF	GUL	FPOR	<u> </u>	SHIP CHANNEL		HOUN	778	- 1 IL			二
TOTAL DEPTH OF SOLE STATE OF SOLE DISTRICT WILLIAM DEPTH OF SOLE STATE OF SOLE								1		<u> </u>	
# MORE TABLE TYPES THE PROPERTY	S. DAILL	ING AGENCY		the second secon]
1. NOTE OF SPILLER 1. SELECTION OF WORKER	4. HOLE	HO (As show	-	ewing title: VC 10 - 77	13, TOTAL NO OF OVER- BURDEN SAMPLES TAKEN	, DIST	UR 6 60)	UMBI	STURB	60
T. DESCRIPTION OF WOLE SYSTATION OF WOLE TOTAL CENTROL TOTAL CENTROL S. C. OLEYN S. C. OLEY	Ł										\Box
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TOTAL SERVINO FIGURE S.S. CLASSIFICATION OF MATERIALS STANDARD-PENETRATION SILCON P	-				IS, TOTAL CORE RECOVERY	FOR B	ORING		<u> </u>		긗
CABIFICATION OF BATEMAL'S TANDADO-PRINTED NO					19. SIGNATURE OF INSPECTOR J. TYSON						
1564 DK GRAY FAT CLAY (CH) GRAY FAT CLAY (CH) 157				· ·	MATERIAL &	57					*
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154 3.0 DK GRAY FAT CLAY (CH) 3.5 GR-2R-INDRG. SILT (MH) W/TR. SAND VIBRACORED 110 CK. GRAY FAT CLAY (CH) CH CH CH CH CH CH CH	164	, · · · · ·		- , · ·			<u> </u>		-		
3.5 4.5 GRSR.(NORG, SILT(MH)W/TR, SAND VIBRACORED 122 DK. SFAY FAT CLAY (CH GRAY FAT CLAY (CH)W/TR, SAND 12.0 12.0 15.0 15.0 21.0 21.0 27.0 27.0 27.0	-	1		GRAY FAT CLAY (C	H) W/ TR. SAYD 80						
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9.5 DL=NI, Pl=30, Pl=30		7				}					
9.5 LL=NI, PL=30, PI=50	112	1		GRAY FAT CLAY C	H)W/TR. SA:LD						
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			owing title: VC-11+77	BURDEN SAMPLES TAKEN	<u>: </u>		:			
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₩ C %	DEPTH	SYM	CLASSIFICATION OF		0	20	#1 PE	R F01	71	80
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172	1		DARK GRAY FAT				_	_		_
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162	3		DK GPAY FAT CLA			-+				\dashv
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107			GRAY FAT CLA (C	-, W -: CrELL						
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			GRAY FAT CLAY (C:							
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BOR!	ING LOG-	*.	South Atlantic	Mobile Die	triet	<u> </u>			SHEE	53
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GUL	FPOR	T. M	IISSISSIPPI	12. HANUFACTURER & DESIGN	ATION		MSL		· · · · · ·	
SRILLI	46 ABBNCY		MOBILE DISTRICT	IN TOTAL NO OF OVER	- DIAT	JA 8 E D		UNCIE	TURBI	
HOLE H	O. (As shew number)	on 41		13, TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN	<u>. </u>					
, NAWE O	PORILLER			14. TOTAL NUMBER CORE BO		-	<u> </u>			
. DIRECT		E		IS DATE HOLE	4.64	· · · ·	i co	MPLES	CD	
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159	-]					
148			GRAY FAT CLAY (CH)	1		П				
-06			JERAY FÁT CLAY (C	H)W/TE SAND	L					
	6.0		LL=103, PL = 28, Pl=7	75	-					
106			GRAY FAT CLAY (C	A) N/TR JRG. MAT.	<u></u>					
104			GRAY FAT CLAY (CH		<u>_</u>					
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113	-		GRAY FAT CLAY (C	H) WITE SAND	1		Ì	,		
114	-		LL=99, PL= 35, PI=	64		1				
105	-		DK. GRAY FAT CLA	Y (CH)		1		<u>l</u> .		
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. ORILLI	NG AGENCY	•	** · · · · · · · · · · · · · · · · · ·	12 MANUFACTURER'S DESIGN					•.	
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	F DRILLER			14 TOTAL NUMBER CORE BOX						
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	ess of ove			17. ELEVATION TOP OF HOLE 18. TOTAL CORE RECOVERY F		RING	3	٤.٠		<u></u>
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1 740				10. SIZE AND TYPE OF PIT				, SH	ECTS
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S. DRILL	ING AGENCY			12. MANUPACTURER'S DESIG	MATIO	of on	LU	-	_
4 HOLE	NO. (As she u	<u>M</u>	OSILE DISTRICT	13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKE	DIST	PRED	UN	DISTUR	CZE
2	OF DRILLER		VG-C43-76	14 TOTAL NUMBER CORE B			<u> </u>		
L			C. FULLER	15. ELEVATION GROUND WA	TER				
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BORING	LOG-S		South Atlantic	Mobile Cisi	· · ·	ن	<u> </u>	<u>- </u> -	SHEETS	4
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4 HOLE NO (/) et) _	D1 41441	vc-C55-7C	14 TOTAL NUMBER CORE BOX	(2 5				<u> </u>	4
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801	RING LOG	-8	South Atlantic	INSTALLATION Mobile Di	strict	<u> </u>	SHEE					
FR039		F11 (FPORT HARBOR	IN SIZE AND TYPE OF PIT				SHEETS				
E. LOCA	TION (Coords)	ates e	FPORT HARSOR	II. DAYUM FOR ELEVATION	•		14.5					
3 DRILL	ING AGENCY	•	OBILE DISTRICT	12 MANUFACTURER'S DESIG				-				
4. HOLE	NO. (Ac show c number)	m en e	round tille: VC-SII- 2-76	13, TOTAL NO OF OVER- SURDEN SAMPLES TAKEN	DIST	URBED	UND	STURRED				
B. HAUE	OF DRILLTA		C. FULLER	14. TOTAL NUMBER CORE BO 15. ELEVATION GROUND WAT								
	TION OF HO		9-	ISTAR	TED	70	1 COMPLE	74070				
<u> </u>	NESS OF OVE			7. 16. DATE HOLE 3-18-76 3-18-76								
	H DRILLED II		DCK	IS TOTAL CORE RECOVERY FOR BORING								
9. TOTAL	L DEPTH OF	HOLE	18.5				DNE					
₩/c %	DEPTH	SYM	CLASSIFICATIÓN O F (DESCRIPTI		[1910	S PER FO	07)				
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			GRAY FAT CLAY (C	מיאיילים פאיום	<u> </u>		-[
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]	6.0				†							
-23			SRAY CLAYEY SAN	0 (SC - H)	<u> </u>		-					
	8.0	$\langle z \rangle$			Ł							
S	9.0		GRAY CLAYEY SA	110 '80'		SR	4405	E::				
95			SKAT CERTET SA	(CC (SC)				\vdash				
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	12.0				 	++						
			GRAY SILTY SAND	CISMIN TR.	Ĺ							
	1		WOOD PARTICLES	S								
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	15.0		SROWN SILTY SAN	ID (SM) W/								
	16.5	Ш	WOOD PARTICLES	S	1		-	 				
	}	\cdots	BROWNISH BRAY	P00814								
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	. 927	L			<u> </u>							
MOB FOR	. 75 /				HOL	L NO."./	~ ~~	-2-76				

L. ' .	ING LOG		South Átlantic	INSTALLATION Mobile D	etriét			MEET or 1	,	75
I. PROJE	_	کا ا	PORT HARBOR	10. SIZE AND TYPE OF BIT	SHOWN	TON &	MEL)	_		
J. LOCAY	ION (Courden	M44 04	FPORT, MS.	12. MANUFACTURER'S DESIG	m A D , Au	AF AA	M.	<u>s'.</u>		_
1	NS AGENCY	M	OBILE DISTRICT	1		ABED			TURBI	
4. HOLE I	10. (As chos	n en er	VC-SIII-1-76	13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKE!	4					
& HAUE	of Driller		C. FULLER	14TOTAL NUMBER CORE SH 15. ELEVATION GROUND WAT						\dashv
	TION OF HOL	-	-	IS. DATE HOLE : -	-18	-7G	100			
	HESS OF OVE			17. ELEVATION TOP OF HOL			7.0			
	DRILLED			18. TOTAL CORE RECOVERY		,	싁			
9. TOTAL	DEPTH OF	HOLE	16.31	1 <u> </u>		ARI				
₩/c	'DEPTH	SYH	CLASHFICATION O (DESCRIPT		"	(810)	WS PET	FOC	11	
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İ			GRAY FR.GRD. SILTY S.	AND (SP-SM)W/TR.	7			ļ		
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MOB FOR	927				HOL	NO. \	/C -	SI	T - :	. 72

L .	ING LOG	-\$	South Atlantic	Mobile Die	trict		OF	SHEETS
I PROJE		ULF	PORT HARBOR	10 SIZE AND TYPE OF PIT	HOWN 7	78H w b	(L)	
E. LOCAT	ION (Cuerdin	# * * * * *	FPORT, MS.	12 MANUFACTURER S DESIGN	ATION	of ball	MSL	
	NG AGENCY	M	OBILE DISTRICT	i	DISTU		UNDIST	POED
a HOLE	NO: (As shew number)	n en dr	OBILE DISTRICT		<u>. </u>			
S HAWE	OF DRILLTR		C.FULLER	16 TOTAL NUMBER CORE SO:			 -	
1	TION OF HOL			16 DATE HOLE 19TAR	:3-	76	3-18-	76
· · ·	HESS OF OVE			17. ELEVATION TOP OF HOLE			!1.0	
	DRILLED I			18. TOTAL CORE RECOVERY 1		· · · · ·	<u> </u>	
9 TOTAL	DEPTH OF	HOLE	13.01				DNER PENETAL	
₩/¢ ;	DEPTH	274	CLASSIFICATION OF (DESCRIPT)		•	(éLOW	s PER FOOT: -40	60
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	, ,		GRAY SILTY SAND W/TR. SHELL FRA	(SM)SL.PLASTIC	\dashv			
	2.0	Ш	W/ TR. SHELL TR	<u> </u>		Ì		
7	3.0		GRAY FAT CLAY	(CH) W/SOME		_		\Box
لـــــا	40		CNAS					
		\cdot	GRAY POORLY GRA	UEU 61127 67170				
		• •	(SP.SM)W/TR. GRA				-	
	6.0		MED. SAND SIZE					
	75-				\vdash	+		+
	,) -	•	GRAY POORLY GR	ACED SAUCISE				
	9.0	• . •	W/SOME GRAVEL	SIZE CSEMEC.		¢	2 \$ 5	$\dashv \dashv$
	-	. • .	SAND SIZE SHEL	FRAG.				
	-	· : •			3		1:1	
	12.0_		LT GRAY POORLY (SP)W/TR SHELL			\dashv	+	\dashv
	-		(SI) W/ LE SRILL	·-~~=.				
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	-		GRAY PODRLY GRA	CED SAND (SF)				
	15,0							\Box
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		.	LT, GRAY POORLY ((SP) W/ TR, SHELL	GRADET SALT FRAG.				
	18.0							
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4 122	<u> </u>	, In	DIVISION	NETALL	TION	· · · · ·		SHEET		٦
	NG LOC	· . 1	SOUTH ATLANTIC		MOB	LE DIS			SPEETS	
L PROJECT	• •	GULFPO	ORT SHIP CHANNEL		ND TYPE OF		SPT II CTELL MENO			4
S. LOCATION &	per dingre	e er Ster	tlen)	L DATUM	FUR ELEVA	JIDH ZÌÓM	MEM.			
t 111 / 2	MS Ei	N24700	DO E422480	_ 12. WWW	ACTORER'S	DESIGNATIO	H OF DALL			1
S. DALLING AG	EMCY	MOBILE	E DISTRICT			<u> </u>	BARGE			4
4. HOLE NO. U	s shown			SUPPOE	NO. OF OVE N SAMPLES	R- TAKEN	5	UNDE	TURNED	
and the n	rupe.).		GSC-1-62	ļ	HAMER CO		- 1,2-2-2			7
S. MARE UP DE	MLLLDY.	-LA	MBERT	E ELEVA	TION CHOUN	WATER"	SEE 'RE	MARKS'		7
& DESCTION O	HOLE *	***************************************		IL DATE	MOLE		STARTED	COMPLE		7
X VENTICA	L 🗆	ČTICO.	DEG. FROM VERTICAL				7. FEB 62	8 FEB		4
7. THECKNESS	OF OVERBU	ROEN	- 		TION TOP O			-27.5	5	┥
& DEPTH DRL	LED BITO I	NOCK	,		LINE OF MS			: ##7	ED CHECKE	ᇑ
A TOTAL DEP	TH OF HOL	E ,	10.5' (EL38.0)			SA	NYER	RC		7
ELEVATION	DEPTH	LEGEND	CLASSFICATION OF MATERIA COnscription)	LS	X CORE	SAMPLE	REMAIL	KS	th of	7
-27.5	0.0	6	d		OR W.C.	MQ.	Orizing time, water	If Monition	CONT)	
-21.3	_	7///	1		 			<u></u>		士
Į.	=		(CH) DK BLUE GRAY FAT C	LAY, V/	l	. '			_	F
	_		SOFT, SEMI-FLUID, DK ORG NO VISIBLE ORG MATT			!			0	
	1.5		No violet one man.		1		G.W. EL. N/A.	IOLE		E
	100 =				· · · · · ·		DRILLED UNDER	WATER.		E
	_		(CH) DK BLUE GRAY FAT C	LAY, V/						F
ł	=		SOFT, SEMI-FLUID, DK ORG NO VISIBLE ORG MATT	COLOR.		2			0	F
1	3.0		NO VISIBLE ON MAY	LIX	1					F
	3.0					,	NOTE			士
	=		(CH) DK BLUE GRAY FAT C	LAY, V/			NOTE:	•		E
1			SOFT, SEMI-FLUXO, DK ORG NO VISIBLE ORG MATT			3	S'SHELBY TUB		0	E
Į.	1		NO VISIBLE ORD MATT	EN		·	MADE-UNSUCCE	SSFUL.		F
ļ	4.5 =						MATERIAL TOO NO MATERIAL R			丰
			NO RECOVERY EROM CAME	rn	1		IN SAMPLE TUE			上
	=		NO RECOVERY FROM SAMPI ASSUMED SAME AS ABOVE	LK	1	-			0	
	· _ =		ASSUMED SAME AS ABOVE		1) 				
1	6.0		(CH) DK BLUE GRAY FAT CI	A.Y		 	}			上
1	=		AS ABOVE, W/ SLIGHT INCRE			!			;-	-
	=		IN DENSITY & CONSISTENCY		-	4	ĺ		0	F
			TO SLIGHT DECREASE IN MO	NSTURE		ļ				
	7.5		CONTENT			 				丰
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1	9.0					<u> </u>	{			上
•	-		(CH) DK BLUE GRAY FAT C	LAV						E
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-38.0_	10.5				 	 	B.Ò.H.			上
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ENG FORM			PROJECT GLH F	PORT S	HIP CHA	NNFI	HOLE HO.	GSC-I-E	: 2	
CADO FOOL			1				I	U3C-1-6	٥.	
'4N 15°	1200			C-106						

		,		<u> </u>				tole No.	(<u> </u>	2
DRILLIN	NG LOG	DIVISION	SOUTH ATLANTIC		PETALLA	TION MOB	ILE DIS	TRIĆŤ		SHEET OF	
LPROJECT	GIII FP	ORT S	SHIP CHANNEL	-		O TYPE O	F BIT		SPT		
LOCATION CA	ordinates or St		ALL PROPERTY OF THE PROPERTY O		L DATUM	FOR ELEVA	TION SHOW	N (TOM, MSL) MLW,	or NGVD)		
<u> </u>	ZONE E: N 2	39890	E 427690		R. WHIF	CTORER'S	DESIGNATIO	N OF DALL		11% 4 4	/
3. DAILLING AGEN	MOBII	E DIS	TRICT				·	BARGE			n en en
4. HOLE HO. (AR	MODILE DISTRICT TO MADE THE CONTROL OF THE CONTROL										
S. NAME OF DRIL	LER	. 4	de en la la de la	· · ·						·	
E PRESTAN OF		AMBER	<u> </u>		S. ELEVAT	ION CROUN	WATER		SEE 'REN		
			DECL FROM VERTICAL		M. DATE H	OLE			62		
			3 7	210 / T						-30.0)
								BORNG			D. OFFICE
a total depth	OF HOLE	6						YYER .			
· a	b 0		Description		`	OR W.C.	SAPLE	Orling 1	PEMARK Time, water. Ting, etc., it	iosa, depri	in of
,		SI	EMI-FLUID. V/ SOFT.	DRG CI	DLOR,			,	WATER	NDER	ž
	3,0		EMI-FLUID, V/ SOFT.	DRG CI	DLOR,		2	SHELB ATTEM RECOV	Y TUBE S PT MADE ERY.MATE	AMPLING - NO RIAL TO	
	4.5	NO F			E MAT'L		•				C
-36.0	<u>.</u> .	S	SLIGHT INCREASE IN CONSISTENCY DUE T	DENSIT	Y & HT		3	В.О.Н.		•	0
ENG FORM I	836 (No.)		PROJECT	GULFP	ORT SH	IIP CHAI	NNEL	 		SC-2-6	?

JAN 1 5 1988

15.00	NG LOC	•	DIVISION S	OUTH ATLANT	ic .	DISTALLA		ILE. DIS	TRICT		SHEET		1.
L PROJECT	, ,	GULFPO		CHANNEL	. (/)	1	NO TYPE. O	FBIT	N CTIBLE MILL	SPT		·	1
2. LOCATION C			231610	E 433150	**	1.	ø .		MLW.	- ·-····	· · · · · · · · · · · · · · · · · · ·		
2 CHELLING AS			E. DIŠTRI		, ,				BARGE]
4. HOLE NO. UA	a shown (GSC-3-6	2	C. TOTAL	NO. OF OVI	TAKEN	2		- UES	NAMED.	ľ
S. NAME OF DE		 	· · · · ·		· · · · · · · · · · · · · · · · · · ·		HAMBER CO			-]
& DIRECTION O	F HOLE	LA	MBERT			-	TION CROUM	DWATER	STARTED:	EE 'REM	ARKS"	180	-
X VENTICA		CLINED	DE	E FROM VERTICAL		M. DATE			8 FEB.	2	8 FEB		1
7. THEXUESS	OF OVERBL	NOEN .	· · · · · · · · · · · · · · · · · · ·				COME NECO		DORNG .		-29.5	·	1
& DEPTH DRAL							UNE OF DE	MECTOR		·		3 (00000)	1
2 TOTAL DEP	IN OF HOLI		6.0	(EL35.5)					NYER		RC	<u> </u>	4:
ELEVATION -29.5	DEPTH	LEGEND		CLASSFICATION OF		,	MECOAELA X COME	SAPLE	Orlang to	REMARK no, votor ing. ato., it	ibas, dept algriffor	th of Mit) BLOOK/TT	
-34.0	L5 ~		NO RE	COVERY - ASS TYPICAL MATI	SUMED SAL' BELOW	ME AS			HOLE D	RILLED U	,	0	
	3.0		•	(BLUE GRAY F STRONG, NO VI TTER.TYPICAL SEMI-FLI	SIBLE OR: - V/ SO	Ĝ		ı				0	
V	4.5		NO REC	OVERY - ASSU AS ABOVE AN				-				0	
76.5				(CH) SAME AS	ABOVE			2	5.0			0	
-35.5			ε						SAMPLE PUSH RETAIN	Y TUBE ATTEMP, 0.7' SAI	TED - 6	5.5′	
ENG FORM	1836 India)		Mo	CC1	GULFP	ORT SI	HP CHAI	WEL		G. III.	SC-3-6	2	

<u>-</u>	<u> </u>						iole No.		-4-62	
DRILL	ING LOG	DIVISION	SOUTH ATLANTIC	NSTALLA		ILE DIS	TRICT		SHEET SHEETS	,
L PROJECT	ĞÜLF		HIP CHANNEL		NO TYPE OF	F. MT	N (78M, MSL or	SPT		7
2. LOCATION (C	Coordinates or ONE MS E: 1	station	Ğ _E 437480 →				MLŴ	· · ·		_
3. DRLLING AG	ENCY	ILE DIST					BARGE			
4. HOLE NO. (A	a shown on dro		GSC-4-62	DURDEN	NO. OF OVE	TAKEN	2 2		·ucstueco	_
5. NAME . OF. DE			· · · · · · · · · · · · · · · · · · ·		NAMER CO					
c harration a	- 101 F	LAMBER	<u>T</u>	B. ELEVAT	TION GROUNE	DWATER		'REMAR		_
S. DIRECTION O			DEG. FROM. VERTICAL	IL DATE			8 FEB 62	8	FEB 62	_
7. THICKHESS	OF OVERBURDEN				CORE-NECO				30.2	
8. DEPTH DAL	LED INTO ROCK				UNE OF INS		- DUTEN		MATED CHEC	200
S. TOTAL DEPT	TH'OF HOLE	6.	0', (EL36.2)	<u>ļ</u>	T	SAY	VYER		RC	_
ELEVATION -30.2	DEPTH LEGE!	۰. ا	CLASSIFICATION OF MATERIAL Obscription) d	5	NECOVERY OR W.C.	SAMPLE NO.	Orling time, vectoering,	REMARKS water loss etc. If sig	depth of mifloant)	771
-30-2	1.5	N	O RECOVERY - TOP MATE FLUID. ASSUMED SAME A TYPICAL MATE BELOW.	IS		-	HÖLE DRIL	LED UNDE		
	3.0	ST	CH) DK GRAY BLUE FAT C RONG ORG COLORING, NO V ORG MATTER, V/ SOFT	VISIBLE		I	,		0	
	4.5	NO.	RECOVERY, SAME AS AB	OVE.		-			0	
-36.2	6.0		H) DK GRAY BLUE FAT CL OVE. INCREASE IN CONSIST DECREASE IN W.C.			2	B.O.H.		0	
			PROJECT					Z m.		
ENG FORM			GULF	PORT S	SHIP CHA	ANNEL		GS	C-4-62	

(CADO Foceinite)
JAN. 1 5 1988

RAH 4	<u> </u>	15	NISION		DETALLA	TION			Ann 11/41	03C-5-	ET	٦
	NG LOG		SO	UTH ATEANTIC		MOBI) <u> S</u> 1	RICT .	OF	SHEÉTS	1
PROJECT		GULFPO	RT SHIP	CHANNEL		O TYPE OF			SPT]
LICATION C	oer dingte	e er Ster	rien)	- 3 - 7 - 1)	E DATUM	LOW ETEAY.	IION S	HO III	MLW OF NEVE			1
	ONE M	E N	224170	E 439180	D. WALF	ctolers.	DESIGN	ATIO	OF DALL			
L DIRLING AG	ENCY	MOBIL F	DISTRIC						BARGE			
4. HOLE NO. (A)	s shown s				IS TOTAL	NO. OF DVE	R- TAKEN		2	u	DERVAND.	
4. HOLE NO. (A) and the n	mber).			GSC-5-62		HAMER CO			· · · · · · · · · · · · · · · · · · ·			4
S. RAIR. OF DR		LA	MBERT			ION GROUND			SEE 'RE	MARKS	•	1
L DIRECTION O	FHOLE				M. DATE	M.F	<u> </u>		STANTED	COM	N.ETED	7
X VERTICAL	. 🗀	CINCO	DEC	FROM VERTICAL	-				8 FEB 62		EB: 62	4
7. THICKNESS (F OVERNU	CEN				ION TOP OF		_		-3	1.1	4
A DEPTH DRALL	ED BITO R	DCX.				COME NECO			307846 /		NTTED : CHECKE	
S TOTAL DEPT			4.5%	(EL35.6)	in sure	unt ur ses			YYER		RC	7
ELEVATION	DEPTH	LEGEND		CLASSFICATION OF MATERIAL	\$	X COME	SAF		PEMA	RKS		7
-311	0.0	8	,	(Description)		OR W.C.	10		Orlaing time, water	if algorit	epth of figant) spi blocky	_
-344	0.0	777				-	_				DI LONG	+
	1.5		(CH) D SOF	K BLUE GRAY FAT CLA T, STRONG ORG COLOR VISIBLE ORG MATTER.	, NO		j		HOLE DRILLED WATER.		0	
-34J	3.0		NO RI	ECOVERY - SAME AS A	ABOVE		-		3" SHELBY SA ATTEMPT MA 34.6 - 35.6. SA DENSE FOR SAN PENETRATE APP SAMPLE DE	DE.EL. AND TOO IPLER T RECIABL	0 0	
-35.6	45		(SM))	MED. GRAY SILTY SAND GRAIN, DENSE.	, FINE		2		B.O.H.		33	
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		<u> </u>	PRO	269		ــــــــــــــــــــــــــــــــــــــ			INDLE MA			
ENG FORM			(rme			HIP CHA						

								HOIS NO.	G	<u>50-6-</u>	<u> </u>
DRIL	LING: LOC	;	DIVISION	SOUTH ATLANTIC	PISTALL	MOB	ILE DIS	TRICT	,	SHEE	T SHEETS 3
L PROJECT		CIN FP	RT (SHIP CHANNEL		NO TYPE O	F MT.	· · · · · · · · · · · · · · · · · · ·	SPT	_=_!_	
2. LOCATION O	Coordoo			om omnitet	A DATUM	FOR ELEVA	TION SHOP	N (TINL WEL MLW	ot (NCAD)		
. 7	ZONE MS			80 E 440650	2. HARF	ACTORER'S	DESIDNATIO	N. OF DALL			*
3. DRILLING AC	PENCY	MOBILI	E DIS	TRICT		AND 62 A		BARGE			STUMBED
4. HOLE NO. U	di shown t	on drawin	g-title	GSC-6-62	BLADE	NO. OF OVE	TAKEN	.,			
S. NAME OF D				1 000 0 007	M. TOTAL	NUMBER C	ORE BOXES		,		
,		LA	MBEF	<u> </u>	E ELEVA	TION CROUN	DWATER		SEE REM		
& DIRECTION (•	DEC. FROM VÉRTICAL	IL DATE	HOLE	į	12 FEB	62	12 FE	
X VERTICA				OFFILE ASSURE	IT. DLEVA	TION TOP D	FHOLE			-29.	
7. THICKNESS						COME NECO		BORNG .			
S. DEPTH DAIL: S. TOTAL-DEP			5	.0', (EL35.8)	IS SIGNAT	une of his	MECTOR SAY	NYFR	, m	R	CD CHECKED
ELEVATION	DEPTH			CLASSFICATION OF MATE	W.S	X CORE			REMARK!	<u> </u>	<u> </u>
0	b	CECENO	,	Ossoription)		OR W.C.	SAMPLE NO.	Statute t	ime, water ring, etc., if	signific	PTRIOT DOMAN) PIBLOWS/FT
-29.8	0.0					 					
				(CH) DK BLUE GRAY FAT STRONG ORG COLOR, S SEMI-FLUID, NO VISIBLE MATTER.	SOFT.		1	HOLE	RILLÉD U WATER.	NDER	0
	1.5			NO RECOVERY - AS A	BOVE.		-	SHELBY	CCESSFUL TUBE SAM IPT. MATE OO SOFT.	APLING RIAL	0
	3,0		СН	DK BLUE GRAY FAT COAS ABOVE.	LAY, SAME		2				C
	4.5 -			RECOVERY - ASSUMED ASE OF PENETRATION, S ABOVE MATL',			-			:	0
-35.8	e.0							B.O.H.		,,,	
ENG FORM				PROJECT GUL	FPORT SI	HIP CHAP	NNEL		HELE III.	SC-6-(52

JAN. 1'5 1998

i		- T		~ ~~~	Tarra		н	ole No.		<u>\$Ç-7-62</u>		7
	NG, LOG	DIVI	SOUTI	ATLANTIC	DISTALL	MOB	LE DIST	RICT		SHEET OF ! S		
L PROJECT	GL	LFPORT	T SHIP CI			ND TYPE OF	art'		SPT]
2. LOCATION CO	perdinates (r Statle	N		IL DATUM	FOR ELEVA	TION SHOW	PETENCHEC I	oc MeAÖ)	-	<u> </u>	1
2 (3. DARLING - AM	ONE MS E			444700	12. WWW.	ACTORER'S	DESIGNATIO	BARGE	~ i ~~~			1
	N		DISTRICT		CL TOTAL	NO. OF OVE	R-	DETU		LACET	/AD	1
4. HOLE NO. CA	mber)	drowing t	itte i	GSC-7-62		NO. OF OVE N SAMPLES		<u> </u>	· 	<u> </u>		4
S. HAME OF DR	LLER	LAM	REDT		<u> </u>	TION GROUPS			EE 'REM	ADVC		┨
C. DIRECTION OF	FHOLE	- LOWI	DEI()		M. DATE			STARTED		CONFLET		4
X VERTICAL	NG.	ED .	DEC. FR	DM VERTICAL				13'aFEB 8	52	13 FEB	62	1
7. THICKNESS O	F OVERBURDE	N _	***			TION TOP OF		NORME .		-32.3		1
B. DEPTH DRALL		<u> </u>	· · · · · · · · · · · · · · · · · · ·			TURE OF INS	PECTOR	····			CHECKET	히
A TOTAL DEPT	<u> </u>		4.5', (EL	36.8) Ssfication of material	<u> </u>			YYER	" NEMARK	RC	<u> </u>	-
-32.3	DEPTH LI	C		(Description)		A COME	SAMPLE NO.	weather	me, water ing. etc., it	loss, dept significa	n of mi) Blook/fi	,
	=					Ţ	,	,				E
	\exists		(CH) DK STRONG 0	BLUE GRAY FAT (RG COLOR, NO VISI	LAY. LE ORG		1		RILLED U	INDER	0	E
				MATTER.			,		WATER.			E
	1.5	/// -	— <u>;</u>							-		丰
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·	\exists			SAME TYPICAL MA			_				۵	E
			700	PENETRATION.	JF		_				Ü	E
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-36.8	4.5 =		 			 		B.O.H.				丰
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ENG FORM	1836	4	PROJECT	GULF	PORT	SHIP CHA	NNEL		HALE MA	GSC-7-6	52	
WALL 1 000	JAN.	1 5 191	1 88			0 110		Į	`			

								1		1018 NO.		<u>650-1</u>	3-62	
	NG LO	; [1	DIVISION	SOUTH A	TLANTIC	1	NSTALLA		ILE DIS	TRICT			EET ! SHEE	16
L PROJECT		CH EDV		HP CHAN	-		O. SIZE A	NO TYPE O		14 A 14 X A	SPT		,	-
2 10012				THE CHAN	IIVEL		L DATUM	FOR ELEVA	TION SHOT	N (TIM, MSL.				\neg
2. LOCATION O	ZONE M) E 4	49100		S. MYRE	ACTOMENC.	ME SIGNIATIV	MLW NOT DREL	<u> </u>	• • •	·	
3. DRELING AG		MOBILE	••		* ' ' ' ' ' ' ' '					BARGE				
4. HOLE NO. U	a shown o				co e ĉo	, , , , [S. TOTAL	NO. OF OVE	ER- TAKEN	्र ।	/8 ()	, 0	NOSTARC	•
and the n	rusber)			<u> </u>	SC-8-62	, F		NUMBER CO			<u> </u>	<u></u>		
S, NAME OF D	MLLER.	LA	MBER	Τ	۔ تاب	` -		ION CHOUN		* * * * * * * * * * * * * * * * * * *	EE 'RE	MARK!	<u>5'</u>	7
E DIRECTION (1	6 DATE I	ÓLE	7	STARTED		C	PLETED	
X VERTICA	r 🗀 M	CLINED	د پائیا	DEC. FROM V	ERTICAL		7 B EVA	700 0	E NOVE	13 FEB	62		EB 62	-
7. THICKNESS	OF OVERBU	ROEN		7.0		· ' }-		COME RECO		BORNE	 	3	2.5	
B. DEPTH DRIL				, , , , , , , , , , , , , , , , , , ,	- , , , ,			UPE OF MS	PECTOR	*****			WTE CH	6000
S. TOTAL DEP	TH OF HOLE	:	3.0	0', (EL3	5.5) CATION OF NA	TENA		1 4 4 4 4		NYER'			RC :	
ELEVATION G -32.5	DEPTH O.O	C C		CLASSF:	Description d	ishers		RECOVERY OR W.C.	SAPLE NO.	Orlling t	REMAR Ime, water Ing. etc., g	loss, c	septh of History Mi Blos	t BLFT
	1.5			V/ SOFT	E GRAY FA DRG COLO E ORG MAT	DRING. N			1	DRILLED	UNDER	WATER	۰ ، —	
			N	Ô SAMPLE	: - SAME /	AS ABO	VE.		-				0	
-35.5	3.0							-	<u> </u>	B.O.H.				— <u>E</u>
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ENG FORM	1836	بمحمد ال		PROJECT	(GULFPO	ORT S	HIP CHA	NNEL		HELE HE	GSC-1	8-62	
ICADO FOO	née ≀JAI	v 15%	186		`	- , • •			-		I	(

		*****					7		}	iole No.	<u> </u>	2
DRILL	NG LOG		DIVISIÓN	SOUTH	AŤĽAÍ	NTIC .	PISTALLA		LE. DIS	TRICT	SHEET	T.
MOJECT		GULFP(-	,		ND TYPE OF		SP	Ť	
LOCATION C				411	7100		R DATUM	FOR ELEVA	TION SHOW	N (TIM, MSL or NOV	b) -	
Z	ONE MS	E: N	204100	<u>3</u> , E	45239	0	IZ. WAS	ACTORER'S	ESIDATE	M OF DRILL "	 ,	
L SMILLING 'AO	ENCY	MOBIL	E DIST	RICT			-	100 YAT AUG		BARGE		TURED
L HOLE HO. CA		n drowin	g fitte	1	GSC-9	-62	BUPCE	NO. OF OVE	TAKEH			
and 1940 n		,, , <u>, .</u>	- 50 - 74	<u> </u>			M. TOTAL	HAMBER CO	RE BOXES			<i>′</i>
	,	., L/	MBER'	T			W ELENA	TION GROUNE	WATER		EMARKS!	
L DIRECTION O				NEA 1944	N VERTICA		IL DATE	HOLE		STARTED 12 FEB 62	12 FEE	62
X VERTICAL				OK G. P. PAG	VERTICA	<u> </u>	IT. ELEVA	TION TOP OF	HOLE		-34.6	
. THICKNESS I				, 				CORE RECO		BOFFIG		
TOTAL PEP			1.5	5', (EL.	-36.0		PL SIGNAT	UPE OF INS		WYER	RC	D) CHECUED
ELEVATION	DEPTH	- LEBEND -	<u> </u>		SFICATION	OF MATER	WLS	2 CORE			MACS .	
-34.6	0.0	0				ription) d 		# CORE RECOVERY OR W.C.	SAIPLE	Oriting time, war vectifiering, etc	g algoritie	ont) i BLOOK/FT
	-			OFT. SE	MI-FLU	AY FAT (ID, ORG C ORG MAT	OLOR.		1	HOLE DRILLE	D UNDER	0
-36.1	15 =		1							B.O.H. UNSUCCESSFUL	3' SHELBY	,—-[
										ATTEMPT, TOO	SOFT.	
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ENG EGG			<u> </u>	PROJECT		 		<u> </u>	<u> </u>	HOLE W		I
ENG FORM	امالحاد					CUL	FPORT S	HIP CHA	NNEL		GSC-9-	62
	JAN	1.151	986	•				•••		•		

DRILL	ING LO	Ġ	DIVISION		TI ANITIO	NSTALLA			70.0		SIEE	I. I.	3
L PROJECT	7.35 77	لبتيني		SOUTH A		ID. SIZE A	MOB ND TYPE O		TRICT SHELBY	OPEN		SHEETS	┪.
			4	HIP CHAN	-ξ				IN COM MEL	or NGVO)	LIVE TI	<u></u>	1
2. LOCATION (C	ONE M	ee or sta S::Et: N	2452(00 E 4I	9900·	2 1415		NECOMAT	MLW ON OF DRILL		<u> </u>	,	1
3. DALLING AG		MOBILI						S	MALL BOA	ÁT		* **	
4. HOLE NO. (A	a shown	on drawin	g title	GS	C-10-62	BURDEN	NO. OF OVE SAMPLES	TAKEN	2		u u	TUGGED	
S. NAME OF DE				<u></u>		H. TOTAL	HAMBER CO	DE BOXES		·			4
EL DIFECTION O	VE LIGHT		MBER	<u> </u>		B. ELEVAT	ION GROUN	DWATER		EE RE	MARKS'		4
X VERTICAL		CLNED		DECIFROM VE	RTICAL	IS. DATE H	DLE		12 FEB 6	2	I2 FE		
7. THICKNESS						IT! ELEVAT	ION TOP OF	HOLE			-3.3	J']
S. DEPTH DRALI							COME RECO		BORNG .	· · ·	Tax a	-	1
S. TOTAL DEPT			26	.7';:(EL3	0.0)	ISL SIGNATU	RE OF INS		WYER		RC	(D) (D(C)(E)	1
ELEVATION	DEPTH	LEGENO	Π	CLASSIFIC	ATION OF MATER	IALS	X CORE		12.1	REMAI	KS		1
-3.3	0.0	C			ď		RECOVERY OR W.C.	M-	Oriting the	ing, etc.	H SOUTH	cont)	
-7.3	2.0			ГОИ	SAMPLED			•	DUE TO S & MANEU BARGE, THIS LOO MEANS PIPE FROM	WATER SHALLOW VERABIL SAMPLE CATION OF OPE M SMAL END PIP	WATER LITY OF NG OF NAS BY N END L BOAT. E WAS		
~# .3	6.0			PE, 3' SHEL	FAT CLAY, N BY TUBE SE AMPLE			UD •1					
-13.3	10.0		'I E)	CH) DK BLU (TREMELY : CONTENT	E GRAY FAT SOFT, W/ FIN	CLAY. IE SAND		1					
	12.0			NOT	SAMPLED			-				4	
-17.3 ENG FORM		<u> </u>	<u> </u>	PROJECT	GUL	FPORT SI	HP CHA	NNEL	<u> </u>	űr er	GSC-10-	62	上

		CH EDAD		-3.3	TION		lole No.		-10-62
	1	GULTPUR	T SHIP CHANNEL		MOB	LE DIS	TRICT		SHEET 2 F. 2 SHEETS.
LEVATION	DEPTH B	rtieno	CLASSFICATION OF MATERIAL Occordations	.\$	ON W.C.	STATE OF	Oriting files vestilering		
	=======================================	X	NOT SAMPLED			,			
	16.0		(CH) DK BLUE GRAY FAT C TYPICAL	LAY.		2			
-23.3	20.0						• • •		
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	<u> </u>	1 5 1988	PROJET						
FORM N	136 • A 136 • A		GULFPO	ORT SHI	P CHAN	NEL	HELE I	GSC-I	0-62
ADD Feed	JAN.	1 5 1000	GELFPE	C-1		WEL	İ	GSC-I	0-62

			Canal Service			7-	E74: -	TIME:		Hole No.		GSC-II		
	NG LO)`	DIVISION	ŚÓUŤH	ATLANTIC		STALLA		ILE DIS	STRICT .			ET SHEETS	
PROJECT	2 7 29 V	GULFP	ORT S	HIP CHA	NNEL			ND TYPE O	F MT:		SPT: A	ICED		
LOCATION C	oor dingt	4. or \$10	rtion)	: - :	7 1277		PATIM	FOR ELEVA	ITION SHÔ	MLW	or NGY))• ••		٦
Z	ONE MS	E: N	23805	0 E	425100	12	. WHUF	ACTORER'S	DESIGNAT	ION OF DRULL		• ;	• • • • • • • • • • • • • • • • • • • •	-{
2. DAILTING VO	DICY.	MOBIL	E: DIST	RICT	· ·		7074	122 AZ AL	<u>,, </u>	BARGE	NAME O			
L HOLE NO. (A	s shown	n growli	ğ îtitle	Ī	GSC-II-62	, ,	BLACE	NO. OF OVE	TAKEN		0.2	4		1
and the re						<u>M</u>	TOTAL	HAMER C	ONE BOXE	\$,,,() (
		L	MBER	<u> </u>		, , 5	ELEVA	LIDH GWOTH	DWATER	•	SEE R	EMARKS		\Box
E. DIRECTION O				DECL FROM	· ·	16	DATE I	OLE .		2 FEB	62.		EB:62	ľ
		CLNED		DE G. PROM	VERTICAL	n	ELEVAT	ION TOP O	FHOLE			-8		7
THENUESS C								COME RECO						
R DEPTH DIRLL R TOTAL DEPT			35	.7', (EL.	-45.21	· **	. SIONAT	URE OF INS		OORE	•		RC OCC	~
ELEVATION	DEPTH				FICATION OF MA	ATEMALS		Y COME		T	REM	APRE		\dashv
	Þ	C C			Description d	,		OK W.C.	SAIPLE NO.	Or Mina	time, wot ring, etc	er loss, d If algori	ficant)	
·-8.5	0.0					,		-	- 	 	<u>```</u>		ST LINE	~
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	-							ĺ		HOLE	DRILLED WATER	UNDER		E
İ			(CH)	DK GRAY	FAT CLAY	, TYPICA	L. V/	}	ľ.		## 1 E/	•		ŀ
			50	FT. SEMI	-FLUID. NO V	VISIBLE	ORG)	ı				0	E
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			(CH)	DK GRAY FT. SEMI	r fay clay. -Fluid, no n	, TYPICA VISIBLE	L.V/ DRG		2	1			۵	F
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}	=) Al	PPROX. D	E - (CH) AS	FAT CL	AY.	1	_				D	F
ĺ	\exists		W/	CLAYEY	FINE SAND	S IN MI	UTE] -				•	F
[Ξ_{\dots}		}						}	1				F
-22.5	M.D.	ZZZ	L	Photet		·		J	<u> </u>	1	100.5			工

OJECT .		ont She		TALLATION	H	iole No.		11-62
		GULFPO	RT. SHIP CHANNEL	MO	BILE DIS	TRICT	· Of	HEZT 2 ,2 SHEETS
ELEVATION (DEPTH	LEVEIG	CLASSFICATION OF MATERIALS (Description)	X COME RECOVER OR W.C.	SMPLE.	Orlling time, w	EMAIKS ofer loss, itc., it sign	depth of
-22.5	*H.O		NO SAMPLE - (CH) AS ABOVE	lo ·	1-7			97 E.005/71
	=		APPROX. D. 13.5. THEN FAT CLA W/ CLAYEY FINE SANDS IN MIN	LY	-	-		
-23.5	15.0		LAYERS.	, ,		ı		
	-	<i>{/////</i> }						•
	=	<i>\////</i>						
	16.0_	<i>\////</i>	CILCRAVITAN CIAV.CANRV					
] =	<i>*(////</i>	(CL) GRAY LEAN CLAY, SANDÝ HIGHLY PLÁSTIC, WZ CLAYEY FI	NE I	6			B
	:		SAND (SC) IN SMALL LAYERS, SOFT.			•		•
	1 =		307.13	}	}			
	1 :		, e.		1			
-26.5	18.0					•		
	-	7////						
	-		(SC) LT BROWN & GRAY CLAYEY	FINE	7		,	17
	-	11/1/1	SAND					17
-28.0	19.5	17/1/						
	20.0	\sim	•					
	20.0	1 V	NO SAMPLE		_			AUGER
	:	1 / \						AUGEN
-29.5	21.0	/						
	1 :	1////						
	1 :	1////	(SC) BROWN & GRAY CLAYEY FI		8			9
	-		SAND W/ SAND & CLAY LAYER	IS				
-3LO	22.5							
-3L5	23.0	\rightarrow	NO SAMPLE		 -			· WR
	1 :	<i>*/////</i>	SCIBROWN & GRAY CLAYEY FIN	iE				_
	1 :		(SC) BROWN & GRAY CLAYEY FIN	-	9			9
	-	13//3/						***
-33.0	24.5				 	1		<u></u>
	-	\ /////				1		
	-	<i>-{/////</i>			\			
]	- /////	NO SAMPLE RETAINED, GRAY AND BROWN (CL), SOFT		-			
	-	-/////	AND BROWN ICEA, SQF	}		1		
		-/////						
-35.2	26.7	4///			-		,	
	-	<i>-{}}}}</i>	(SC) GRAY CLAYEY FINE SANDS					_
	:	<i>=\/}/\/</i>	1 1307 URAL CEALET FINE SANDS	-	10			5
-36.7	28.2	7////		1		B.O.H.		
	1 5005	-	· · · · · · · · · · · · · · · · · · ·		1			
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		7	<u>.</u> .					
C EOGN	M-25-A	AN. 1:5 1	PROJECT GULFPOI			HOUTE	™. GSC	

					1		H	ole No.	G	SC-12-6	52
DRILLIN	N: LOG	Dn	Vision . S	SOUTH ATLANTIC	INSTALLAT	NON MORI	LE DIST	TRICT		SHEET OF 2	·
L PROJECT		LILEPOR	•	IIP CHANNEL		O TYPE OF	BIT		SPT	<u> </u>	
2. LOCATION (Con				. VICTORIA	L DATUM	FOR ELEVA	TION SHOW	I (TIM, MSL or	NCVOI		
Z01	<u>ne ms</u>	E: N 22	22300	E 436700	2. MALEA	CTONER'S	DESIGNATIO	MLW N OF DRILL	······································	 ;	
3. DRILLING AGEN	EY	MOBILE	DIST	RICT				BARGE		T***	
4. HOLE NO. CAR	shown o	n drawing	title	GSC-12-62	BURGEN	NO. OF OVE SAMPLES	TAKEN	8		UNCOR	TURNED
and the nue S. NAME OF DRE			نـــــن		H. TOTAL	MAMER CO	23XOB 3A				
		LAN	ABERT	<u> </u>	B. ELEVAT	ION GROUNE	WATER		E 'REM		
EL DEPLECTION OF	HOLE	NEO.	ſ	DECL FROM VERTICAL	AL DATE H	OLE		STARTED 62		13 FEE	
7. THECKNESS OF					II. ELEVAT	ION TOP OF	HOLE			-15.5	
B. DEPTH DRELE						COME NECO		BOFFING			
& TOTAL DEPTH			22.	5', (EL38.0)	- Inc. Stores II	AE OF INS		VYER		RC	D CHECKE
ELEVATION	DEPTH	LEGEND		CLASSFICATION OF MATERIA	L.S	X COME RECOVERY	SAMPLE	(Octobro ele	PEMARK	5	th of
-15.5	0.0	C	5 •	ď		DR W.C.	NO.	Origing the vectherin	d etc.	algniffe	CONTO
	-										
	3					į		HOLE DA		INDER	
	\exists		(C	CH) DK BLUE GRAY FAT	CLAY.	}	١.		ATER.		
	\exists		T	YPICAL, V/ SOFT, SEMI- ORG COLOR, NO VISIBLE	FLUID.		}	1			0
	2.0_		,	MATTER.				ļ			
	=						1				
	3.0					1					
	J.0			-							
	4.0		48.11	DU DILLE ADAY EAT AL		'					
}			(CH)	DK BLUE GRAY FAT CL S ABOVE, SLIGHT DECRE	ASE IN	1	2			*	_
			CI	W.C. SLIGHT INCREASE ONSISTENCY, MATL' STILL	IN ZERO	}					D
]	_			BLOW COUNT.		Ì					
	_						1			•	
]											
[6.5						1	1			
, ,	_		(Un/	SAME AS ABOVE			3				
	8.0		(UII)	JAME AS ABUTE			'				0
	=										
	9.0]			
[[7			
							1				
1	10.0		,	NO SAMPLE RETAINED			}				
1	_		1	CH) SAME AS ABOVE			-				0
	_					1	1	}			
1	-						1	1			
	12.0_		: 				1	_			
]	·** • · · · · · · · · · · · · · · · · ·			**************************************				7			
	_							1			
			(CH)	SAME AS ABOVE			4	}			0
1			1					1			
-29.5 ENG FORM (CADD Face)	14.0			PROJECT		<u> </u>			ALE MA.		

ROJECT				LEVATION TOP OF HOLE	-15.5	*****	• }	iole No.	G	SC-12-62	4
	·	GULFPO	RT SHI	P CHANNEL	PISTALLA"	MOB	ILE DIS	TRICT		SHEET 2 OF 2 SHEETS	,
ELEVATION o -29.5	DEPTH b	LEGENG		CLASSFICATION OF MATERIA Caecription) d	LS	% CORE RECOVERY OR W.C.	SAIPLE NO.	Oriting time	REMARKS 6, water: I g, etc., If	cas, depth of algoriticant) set sloss/f	•
-23.3	-		(CH/ 6	ANE AS ABOVE		•			<u> </u>		۲
70 F	=		-(CH) \$	AME AS ABOVE			4				
-30.5	15.0					-					7
					•						-
	18.0_										
	=		(CH) S	AME.AS ABOVE			5			0	
	_										
	=										ł
-33.5	18.0			T							\dashv
	=		(CI	L) GRAY SANDY CLAY- ITENT VERY ACTIVE, PL	CLAY						
	_		CUN	ORG GRAY COLOR.	ASHC,		6			!	ŀ
-35.0	19.5 -			•							4
	_		(CL)	GRAY SANDY CLAY, SAN	Æ AS		7			_	ł
	=	<i>{////</i> }	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ABOVE.			•			8	-
-36.5	21.0 -			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				·		+
											Ì
			(SC)	GRAY CLAYEY SAND			8			0.4	ŀ
	=							•		24	ł
-38,5	23.0		·····					B.O.H.			_[
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C F004	MTC.A	N 1 5 19		D.CET				1	LE MA		-

			DIVISION ,	MSTALLA	TION		TONE NO.	<u>650-13-</u>		<u>*</u>
	ING LO		SOUTH ATLANTIC		MOB	ILE DIS	TRICT		T ' SHEETS	1
L PROJECT		GULFP	ORT SHIP CHANNEL		ND TYPE O	F: MT,	SP	T		7
2. LOCATION (· • • • • • • • • • • • • • • • • • • •			B. DATUM	FOR ELEVA	TION - SHOW	N (TBM, MSL or NGVC))		7
Z	ONE MS	E: N	208800 E 446500	13 11112	10404	NFP 10-1-1	MLW OF DRILL	····		_
3. DRELING AO			E DISTRICT				BARGE		-].
4. HOLE NO. (A	s shown	on drawlr	GSC-13-62		NO. OF OVE		DISTURBED 6	UIC	STURNED	
S. NAME OF DE				H. TOTAL	HUMBER CO	THE BOXES				
,		L	AMBERT	S. ELEVA	TION GROUN	DEATER	• SEE 'R	EMARKS'		7
S. DIRECTION C				E DATE	HOLE		STARTED 12 FEB 62	COMPL		7
X VERTICAL		CLINED	DEG. FROM VERTICAL	IT. EL EVA	TION TOP DI	C MOLE	IZ FEB DZ	I2 FE		\dashv
7. THICKNESS	OF OVERBU	RDEN			CORE RECO		BARNS '	-16.	2	\dashv
B. DEPTH DRILL	LED MTO !	NOCK	,		UNE OF INS		- DOTEN	120.00	ED CHECK	닒
S TOTAL DEP	TH OF HOLI	E	18.5', (EL35.0)			SAI	NYER	R		-
ELEVATION Q	DEPTH	LEGENO	CLASSFICATION OF MATERIA Chescription) d	LS.	X CORE RECOVERY OR W.C.	SAMPLE NO.	Origing time, wat weathering, ato	ARKS er loss, der	oth of	
-16.5	0.0	77277	} ``		•	+		9 9	T BLOWE/F	1
	2.0		(SC) MED GRAY CLAYEY SAI	ND. FINE		I	HOLE DRILLED WATER		0	
	4.5		(SM) MED GRAY SILTY SAN GRAIN	D, FINE		2			И	
	6.0		NO SAMPLE - ASSUMED (SI AS ABOVE.	M) SAME		-		•	16	THILL
	7.5		(SM) MED GRAY SILTY SAN GRAIN W/ BITS & FRAGMEI SHELLS	D. FINE NTS OF		3		. <u>.</u>	40	
	9.0		NO SAMPLE - ASSUMED (ABOVE W/ SHELL BIT	SM) AS				,	40	THE
	30.5		(SM) MED GRAY SILTY SAN GRAIN	D, FINE		4			45	
	12.0					-			50+	
	13.5		NO SAMPLE - SAME AS ABOV	/E AND		-			50+	
		<u> </u>	(SM) MED CRAY SILTY SAN	D. FINE		5	1			-
-30.5	<u> </u>	tttt.	PROJECT -		L		HOLE MA			
ENG FORM	1836,			PORT SI	IP CHAI	INFI		CCC-13-	62	

	LOG (C	ont Shee	9+) ELEVATION TOP OF HOLE	16.5		, 1	iole No.	GSC-13-62
OJECT		GULFPOR'	T SHIP CHANNEL	PISTALLATIO	N MOB	ILE DIS	TRICT	SHEET 2 OF 2 SHEETS
LEVATION a -30.5	DEPTH D	LEGENO	CLASSIFICATION OF MATERIAL Opening tion)	S	X CORE ECOVERY OR W.C.	SAMPLE NO.	. AFMA	KS loss, depth of lif algorificant)
	15.0_		(SM) MED GRAY SILTY SAND	, FINE		5	•	47
-33.5	16.0		(SM) MED GRAY SILTY SA	ND		6	B.O.H.	66
	-							
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AC EUMY			PROSET				INSLE NO.	
CADO Foo	ainda) ja	H. 1 5 190	GULF	PORT SH C-	IP CHA -122	INNEL	ì	GSC-13-62

									Iole No.		GSC-	14~CC	.
DRILL	ING LOC	, 0	KVISION C	COLITIA ATLANTIC		PISTALLA	NON LIAD	· · ·			S	HEET	1
L PROJECT			X +	OUTH ATLANTIC	<u></u>	IO, SIZE AL	D TYPE O	ILE DIS	TRICT	.SP1		2 5	EETS
				IP CHANNEL					N (TIME USE	or HCVD			
2. LOCATION C	coordinate ONE MS	Le or stat	1000 240480	E 428480		D HANE	CTOBERS	DECKNATIO	MLW XH OF DRELL				
3. DRELING AG		MOBILE	,	,			E I CHEN 3	VE-PHEN 1 R	BARGE				
4. HOLE NO. (A	a shown i					IS. TOTAL	NO. OF OVE	R- TAKEH	DISTU	ED -		UCSTU	AUCD .
and the n	umber)			GSC-14-62			NUMBER CO						
S. POARE. UP (J.	GLLEN	LA	MBERT		!	B. ELEVAT	ION CROUM	DWATER	• S	EE 'RE	MARK	s.	
& DIRECTION O						M. DATE H	OLE		STARTED 30 JAN	E2 :		JAN	
[X] VERTICAL		CLNED		EG. FROM VERTICAL		IT. ELEVAT	ION TOP O	HOLE	JO DAIN	02		9.5	02
7. THICKNESS						M. TOTAL	CORE RECO	WERY FOR	BOFING				
A DEPTH DRAL			28 1	2', (EL37,7)		M. SIONATI	THE OF THIS		WYER		- 1	RC RC	CHECKE
ELEVATION	DEPTH	LEGEND	20,1	CLASSIFICATION OF		5	X CORE		1	REMA	UKS.		<u> </u>
-9.5	Δ.	C		(Description d	מוא		COR M.C.	SAMPLE HO.	Oriting t	ing, eat	or load.	depth hitlogr) 0f)†)
-9.5	0.0	777					•		 	9		371	LOWS/FT
}] =						}		HOLE	RILLED	UNDE	R	
}	_									WATER.			
	=		HO)) DK GRAY FAT CL R & ODOR, V/ SO	LAY, OR	GANIC VISIBLE		ı					٥
}	2.0			ORGANIC MATTER				,	1				•
Ì									}				
	=												
	3.0			-			<u> </u>		-				
									}				
	4.0		(CH) [OK GRAY FAT CLA	AY - SA	ME AS			1				
,]		10117	ABOVE			j	2]				
Į.	_								ļ			•	0
	-											•	
j	=						1						
	6.0			_					1				
	=						,					-	•
}] =								1				
	=		/ 0110	DE 6049 FAT 61	٠, ٢		}						
ł	=		(CH)	DK GRAY FAT CLA ABOVE	AT - 3/	AME AS		3					0
}	8.0_]					
}	=						}						
}	9.0			_					1			_	
1	=								1				
}] _ =												
<u> </u>	10.0		_										
] =		(CH)	DX GRAY FAT CL. ABOVE	AY - S	AME AS		4	i				٥
	_			ADOTE			Ì		1				
{	=							}	}				
	12.0_=							}	{				
				_					7			***	
	=							}					
			(CH)	DK GRAY FAT CLA ABOVE	AY - S	AME AS		5					0
	=			ADUYE									
-23.5	14.0												
ENG FORM	1836		In In	NO.ECT	CINE	ORT SI	IID CHY	NNFI		HOLE 100.	GC C	-14-6	2
CADO FOOE	AL (eller	n. 15%			JULIT		1173	71 1646		(ODC,	17.0	

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	LUG IC	ont Shee	777.		9.5	· · · · · · · · · · · · · · · · · · ·	H	iole No.	GS	C-14-62	
OJECT		GULFPOR'	T SHIP	CHANNEL	INSTALLAT		LE DIST	TRICT		SHEET 2 OF 2 SHEET!	5
LEVATION 0 -23.5	DEPTH b	LEGEND		CLASSFICATION OF MATERIAL COMMONTOTION)	S	X COME RECOVERY OR W.C.	BOX OR SAMPLE NO.	Orizing time, weathering,	REHARKS water to etc., If	se, depth of significant) set stors/	6 T
-23.3	15.0		(CH) DK	GRAY FAT CLAY - S.	AME AS	•	JAR ©5			art abject	-
	16.0		(CH) DK	GRAY FAT CLAY - S. ABOVE	AME AS		JAR ●6			0	
	20.0		(CH) DK ABO CONS	GRAY FAT CLAY - S VE W/ SLIGHT INCREA: SISTENCY & RESISTANC DEPTH INCREASES.	AME AS SE IN CE AS		JAR #7			0	
	22.0			GRAY FAT CLAY W/SI ND CONTENT - INCRE/ IN CONSISTENCY			JAR ■8			, 0	
-33.5	24.0			NO SAMPLE							_
-34.2	26.2		HIGHL	& (SC) GRAY SANDY (Y PLASTIC W/ CLAYE CONTENT, W/ CLAY C ACTIVE.	y fine		JAR *9			8	
	-		(CL) G STIFF MOTTL	RAY & YELLOW SANDY W/ YELLOW (CH)FAT ED GRAY & YELLOW P	CLAY. CLAY IN ATTERN.		JAR ≢IO			21	
-37.7	28.2	1////				-	 	В.О.Н.			
NG FORM	1936-A	<u></u>	PH	GULF	PORT S	HIP CHA	NNEL	1484	g ma.	SC-14-62	
CADD Foo	Herrine: J	AN. 1 5 19	188 i	C-1				i	-		

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			,			tole No.		<u> GSC-15-</u>	62
DRELING LOG	DIVISIO	N SOUTH ATLANTIC	PISTALLA		ILE DIS	TRICT			T SHEETS
L PROJECT GUL	PORT	SHIP CHANNEL		NO TYPE O	FMT		SP	T.	
2. LOCATION (Coordinates or			EL DATUM	FOR ELEVA	TION SHOT	n (tame MSL MLW)	or NCVE))	**********
ZONE MS E:	N 2249	20 E 440200	12. WHUF	ACTONER'S	DESIGNATIO	W OF DRILL			
	BILE DIS	STRICT	G 70741	40 OF AV	<u> </u>	BARGE	PRED	! !**	STURBED
4. HOLE NO. (As shown on dri and 13e number)	wing title	GSC-15-62	BURGE	NO. OF OY	TAKEN	7			alonge,
5. NAME OF DNILLER				HLMBER C					
S. DIRECTION OF HOLE	LAMBE	RT	E ELEVAT	ION CROUN	DWATER	STARTED	EE 'R	EMARKS'	
X VERTICAL INCLINED		DECL FROM VERTICAL	M. DATE P	IOLE		31 JAN	52	31 JAI	
7. THICKNESS OF OVERBURDEN			IT. ELEVAT	ION TOP O	F HOLE			-14.	5
B. DEPTH DRILLED INTO NOCK				CORE RECO		BORING		1	
S. TOTAL DEPTH OF HOLE	2	2.0', (EL36.5)	IS- SMMAII	URE. UP IRS		ORE		R	TED CHECKE
ELEVATION DEPTH LEGE	10	CLASSFICATION OF MATERIALS Opening the Control of Contr	5	X CORE RECOVERY	SAMPLE	CONTRAC 1	REM.	ANKS	
-14.5 0.0 °		d		CR W.C.	HQ.	weather	ing, etc	er loss, der if elocation	cont)
2.0	ÇŞ	CH) DK GRAY FAT, ORGANIC (LIGHT ORG ODOR NO VISIBL MATTER, V/ SOFT	COLOR. E ORG		I	HOLE C	ORILLED WATER	UNDER	0
4.0	"	CH) DK GRAY FAT CLAY - S MATERIAL AS ABOVE	IMILAR		2			,	0
8.0 9.0	"	CH) DK GRAY FAT CLAY - S MATERIAL AS ABOVE	IMILAR		3				0
10.0	· ·	CH) DK GRAY FAT CLAY - S MATERIAL AS ABOVE	IMILAR		4				0
	(C) SAN	H) GRAY FAT CLAY W/ SON DY CLAY & (SC) CLAYEY S BITS OF SHELL	Æ (CL) SAND W/		5				0
ENG FORM 1836 (CADD Focularia)/AN 4 5	1000	GULFP	ORT SI	IIP CHAI	NNEL	<u> </u>	HOLE HO.	GSC-15-	-62

DECT				14.5		!	Hole No.	GSC-15-62
		GULFPO	RT SHIP CHANNEL	HSTALLAT	MOB	ILE DIS	TRICT	SHEET 2 OF 2 SHEETS
LEVATION g -28,5	DEPTH b	C CECEND.	CLASSFICATION OF MATERIAL (Description) d	5	X CORE RECOVERY OR W.C.	SAMPLE NO.	Criting time, water weathering, etc.,	KS - loas, depth of if algoit(cont) spr acces/f
-29.5	15.0		(CH) GRAY FAT CLAY W/ SON SANDY CLAY & (SC) CLAYEY S BITS OF SHELL	E (CL)		5		ar accor.
	6.0 6.1 11111111111111111111111111111111		(CL) GRAY & YELLOW SANDY HIGHLY PLASTIC W/ YELLOW FAT CLAY IN MOTTLED YELL GRAY PATTERN, CONSISTER BECOMING FIRMER	(CH)		6		0
	19.5		(CL) ASSUMED SAME AS ABOVE SAMPLE RETAINED IN SPO	- NO		-		8
-36.0	21.5		(CL) GRAY & YELLOW SANDY	CLAY		7	B.O.H.	6
								•

		 1	DONC 1004	······································	1				tole No.	GSC-16-6		
	ING LOG		DIVISION	SOUTH ATLANTIC	NSTALI		BILE	DIS	TRICT	SHEET OF 2 S		
L PROJECT	(GULFP(ORT S	HIP CHANNEL		AND TYPE	OF BIT		SP.	T		
2. LOCATION O	Coordinates	s or Sto	tion)		L DATU	FOR ELE	MOITA	SHOW	H (TBM, MSL or NGVD))		
3. DRILLING AC	ZONE MS	E: N	21140	D E 450200	12. HW	FACTORER	DESIG	NATIO	N OF DRILL			1
		MOBIL			[3. TOT 4	I NO AS A	VC9-		BARGE	LINGIST	USED	1
4. HOLE NO. U	us shown o	n drawit	eltit p	GSC-16-62	BURG	L NO. OF C	TAKE	<u> </u>	5			
S. NAME OF D				<u>.</u>		L MIMBER]
S. DIRECTION 1	NE HOLE	L/	AMBER	T		ATION GROU	HOWATE	R	• SEE 'R			1
X VERTICA	_	LHED		DEC. FROM VERTICAL	IS. DATE	HOLE		-	STARTED 1FEB 62	IFEB		
7. THICKNESS					ļ	ATION TOP				-21.5		
8. DEPTH DRUL						L CORE RE			BORENG	700.00	CHECKED	
S. TOTAL DEP	TH OF HOLE		16	.0', (EL37.5)		TONE UP E	SPECIC		ORE	RC		
ELEVATION	DEPTH	LEGEND		CLASSIFICATION OF MATE Chascription)	ERIALS	X CORE	Y SAM	PLE	Origing time, work weathering, etc.	ARXS or loss, depti	h of	1
•	D	c		. d		OR W.C	N	<u>} </u>		if significa	nt) BLOOS/FT	
	2.0			DK GRAY FAT CLAY, ODOR. V/ SOFT. SEMI- VISIBLE ORG MAT	-FLUID, NO			ı			0	
	4.0		(C MIN	H) DK GRAY FAT CLAY, JTE LAYERS OF SILTY (GRAY)	.SOFT.W/ FINE SANI			2			0	
	8.0		(C	H) DK GRAY FAT CLAY ABOVE W/ BITS OF S	.SAME AS SHELL			3			D	
	10.0		(C	H) DK GRAY FAT CLAY, Above	,SAME AS			4			D	
	12.0		j SiL	D GRAY FAT CLAY, WIT TY SAND LAYER, V/SN NO SAMPLE RETAINE	JALL.			•			0	
ENG FORM	1836 JAN	151	250	PROJECT GU	LFPORT S	HIP CH	ANNFI		HCT NO	050-IE-E	2	

PRILLING	LOG (Co	nt She	991) ELEVATION TOP OF HOLE	-21.5			lole No.	GSC-16-62
ROJECT	(GULFPO	RT SHIP CHANNEL	PISTALLA	TION MOB	ILE DIS		SHEET 2 OF 2 SHEETS
ELEVATION	DEPTH D	LEGENO	CLASSIFICATION OF MATE Description) d	PHALS	X CORE RECOVERY OR W.C.	ı	1	MARKS Iter loss, depth of Oulf algoriticant) Q SPT 8LDSS/FT
-36.0	14.5		(CH) GR FAT CLAY, FN SI LAYER, NO SAMPLE	LTY SAND		-		
			(CL) GRAY SANDY CLAY, V. W/ (NL OR SC) CLAYEY F SMALL LAYERS	/ PLASTIC		5		22
-37.5	F-0				-		B.O.H.	
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	147C A	15"	PROJECT	ULFPORT			HELE	GSC-16-62

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							Hole No.	P-1
	LING LOG	l	SOUTH ATLANTIC	BETALL		HLE DIS	TRICT	SHEET OF 2 SHEETS
L PROJECT		GULFP	PORT HARBOR, MS.		NO TIPE O	F 341	·	?
S. LOCATION O	Coordinates	or Sta	rion				M (TBM, MSL or MC	. ION
3. DRILLING A			INGLE TO BN 64	12. WHU	ACTORER'S	DESIGNATIO	N OF CALL	
			E DISTRICT	B. TOTAL	NO. OF OW		BARGE	UMBST UMALD
4. HOLE NO. ()	number)	n arasta	p-1	~	H SAMPLES		! 3	
S. NAME OF D	PALLER		NIX	ļ	TICH SHOUN			REMARKS"
& DEFECTION	OF HOLE				HOLE ? ye		STARTED	COMPLETED
X VERTICA	r 🗆 bkg	LINED	DES. FROM VERTICAL		TION TOP O		4/23	4/23
7. THICKNESS					COME NECO		NORES	-45.5
S. DEPTH DRIL S. TOTAL DEP			24.5', (EL40.0)	B. SOM	UPE OF SIS		OYD	WRS
ELEVATION	T T	LEGENO	CLASSFICATION OF MA	TERLS	X CORE		i	MARK
-15.5	0.0	0	d d		OR W.C.	NS).	Origing time, we wouthering, s	oter loss, depth of to, if significant) 0 SPT 8.003.71
-28. 0	9.0		(SC) DARK GRAY MUCH OYSTER SHELI	(W/ FEW		B651	G.W. EL. N/ DRILLED UNI	
-36.5	5.0		(SM) SILTY SAN	ND		XI34		
NG FORM	1836 JAN	271	989 6	ULFPORT H	ARBOR.	ws.	HOLE HO	P-1

HILLING I	LOG (C	ONT SIN	est) ELEVATION TOP OF HOLE	15.5	<u>+</u>	loie No.	P-I
O.ECT		GULFP	ORT HARBOR, MS.	RETALLATION MOE	HLE DIS		SHEET 2 OF 2 SHEETS
ELEVATION Q -36.5	DEPTH 5 21.0	LECENS	CLASSFICATION OF MATERIAL!	X CORE RECOVERY OR W.C.	BOX OR SAMPLE HQ.	Orling time, wa weathering, et	MARKS ter loss, depth of o., if significant) Q SPT SLOSS/FT
			(SM) SILTY SAND		X/34		
	22.6		(SM) SILTY SAND		994		
-40.0	24.5				ļ	B.O.H.	

		15			Transition			1000 100		<u> </u>	
DRILL	ING LOG	DIVISION	SOUTH A	TLANTIC	PSTALLAT	MOBI	LE D	ISTRICT		SHEET	
L PROJECT	CIPE		IARBOR, N		ID. SEZE AM	D TYPE OF	BIT		7	·!-	
			IANOUR, N	nJ. 	E DATUM	OR ELEVA	TION SH	ONN (THE USL O	M MGYDI		
2. LOCATION (C	coordinates or S1 6000' RT.	ANGLE	TO BN. 6	4	D MILE.	MINERAL I	REEN	MLW TION OF DRILL			
S. DRELLING AG	SMCA			·	- ISS. SPANOR A	civetta t	A CONTROL	BARGE			ļ
		LE DIST	i RIC I		LATOTAL	O. OF DVE	R- TANEM	the same	6625	U de	TLABEL
and the n		## TITE		P-2		MARKER CO		<u> </u>		<u> </u>	
S. NAME OF DR	LLER	NIX				ON GROUNE			EE 'REM	ARKC.	
& DEPECTION O	F HOLE	INA						STARTED	i i	COMPLI	COD
X VERTICAL			DEG. FROM VI	ERTICAL	EL DATE H			4/23		4/2	23
	OF OVERBLANDEN					OH TOP OF				-14.0	
	LED INTO ROCK	····		***************************************		core reco re of bisi				! ROLET	EB : C) (C)
& TOTAL DEPT		12.	0', (EL2	(6,0)	IN SHOULD	PEC UP 1953		FLOYD		WR	
ELEVATION	DEPTH LEGENC	1	CLASSE	CATION OF MATER	SALS	X CORE	BOX C	R I	REMARKS		
-4.0	0.0		,	d		RECOVERY OR W.C.	NO.	vectiner	ne, voter	eloniik	cont)
	-1111	П									
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	3							DRILLED	UNDERW	ATER	
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	6.0]	I (SM-	-SC) DARK	GRAY MUCK	W/ SANDY		X136	.			
				CLAY			, XISE	'			
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ENG FORM	1836			GL	LFPORT H	IARBOR,	MS.			P-2	•

								<u> </u>	1010				_
DRALL	ING LOG		HOLSHY	SOUTH	ATLANTIC	PISTALLA	HOLE	ILE DIS	TRICT		SHEE	T I SMEETS	1
PROJECT						IO. SEE A	NO TYPE OF		,	F/T	1		İ
				HARBOR,	M3.	& DATUM	FOR ELEVA	TION SHOW	IN CTONL MISE O				1
e. Location . C	00000000000000000000000000000000000000	or \$90 Y RT. A	NGLE	TO BN	64	P. MIME	CTOMES*	DESCNATA	MLW H OF DRILL				1
S. CHALLAG AS		MOBILE							BARGE				
A WOLF HOLD	t anown o			i		EL TOTAL	KOL OF OVE	R- TAKEN	Esitua		USE	Tueso	
4 HOLE NO. U. OTAL PRO M				1	P-3		HAMER CO				<u></u>		1
e have of cr	ELLER		NIX			<u> </u>	ION GROUN			E 'REM	ARKS"		į
S, DEVECTION O	F HOLE					IS DATE	DLE Pye		STARTED		SOMPL		1
[X] VERTICAL	L 🗀 🎮	CLRED		DEG. FROM	VERTICAL	ļ	TON TOP O		4/23	i_	4/2		ł
7. THEOREGES (OF OVERBLE	SEN .					COME RECO		909ec		-12.5	2	1
e. Depth drali						1	UNE OF DIS	PECTOR				D CHOUSE	1
a total dept	TH OF HOLE	;	19	.4', (EL.		<u></u>	1		OYD	REMARKS	WR	<u>s:</u>	┨
ELEVATION	HT430	ceen			FICATION OF MATERIAL COMMONIPHION	3	Z CORE RECOVERY OR W.C.	BOX OR SAMPLE RO.	Origina the	se, voter	loes, dec	rth of	
-12.5	0.0	7.7.7.1					6	7		8		T BLOCK/FT	╀
-31.9	9.0		(S	M) DARK	GRAY MUCK W/	SANDY		XI37	G.W. EI DRILLED	- N/A H	OLE ATER	•	
				<u> </u>	•								
ENG FORM	1836 IA	N. 27	1988	PROJECT	GUL	FPORT	HARBOR	, MS.		WLI M.	P-3	i	
WALL FOOL	erazani, , ,	🚅 1		j					,				

									iole No.		P-4	
DRILLI	MG LOG		DIVISION	SOUTH /	ATLANTIC	DESTALLA	MORI	LE DIS			SHEET 1 OF 2 SHEETS	
PROJECT		1		ARBOR,		IO. SIZE A	TYPE OF			F/T		
LOCATION C	000 de co			MROUR, I	mJ. 	A DATUM	FOR ELEVAT	ION SHOW	N (TON, MSL or MLW	HEYD)		7
	2000	YRT. A	NGLE	TO BN	64	2. MALF	actorer's i	ESIGNATIO	N OF DIRELL	· ·		\dashv
L DRELING AG	ENCY	MOBILI	E DIST	RICT		0.70741	100 AC ME		BARGE		(DESTURED)	\dashv
L HOLE NO. (A	s shown o				P-4	SLECEN	NO. OF DIVE	TAKEN	1			\Box
and the n				L		ļ	NUMBER CO					_
Page Atlant	E 100 F		NIX				HON GROUNE			E 'REMA	RKS*	\dashv
L DIRECTION OF		CLINED		DEG. FROM 1	WERTICAL	IS. DATE	DLE Pyer	x	4/23		4/23	\Box
7. THICKNESS (}	ICH TOP OF				-11.0	\dashv
R DEPTH DAIL						L	COME RECO		BORING		EWID OEC	100
R TOTAL DEPT			41.	0'. (EL				FL	OYD		WRS	
ELEVATION	DEPTH	LEGENO		CLASS	FICATION OF MATER Obsoription)	ZALS	X COME RECOVERY	BOX OR SAMPLE	Orising the	NEMANKS	es, depth of significant)	1
- L O	0.0	C			đ		OR W.C.	NO.	vagtherin	a etc. If	SIGNITIOGNY) SPY RLOUE.	1
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				A A. B.	***********	CH TV	-					ļ
	-		(CH) DARK	GRAY MUCK W	1/ 38_11	ĺ	XI44				
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-32.0	210									-		
ENG FORM	1836	API 12 77	1022	PROJECT	CI	ULFPORT	HARBOR	, MS.		COLUMN.	P-4	
TATO CAN	aledia) U	nii Z	いならご	1	U				ŧ		1 1	

DECT	200 101	ont She		-ILO DESTALLATION	×	H	iole No.		P-4
		GULFPO	ORT HARBOR, MS.	- TANKEN IN	MOBI	LE DIS	TRICT		SHEET 2 OF 2 SHEETS
UNTAVAL Q	DEPTH b	LEGENO	CLASSIFICATION OF MATERIAL Classification) d	.S	COME ECOVERY OR W.C.	BOX OR SAMPLE NO.	Orking tie weatherle	REMARK No, woter ng, etc., It	loss, depth of algorithment)
-32.0	210				•			<u> </u>	SPT BLOWL/FT
	=								
	_			j					
	=		(CH) DARK GRAY MUCK W/	SETY		VIAA			
	=		(CH) DARK GRAY MUCK W/ SAND			XI44			
	24.0								
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-35.5	25.5								
	=	11/92		1					
		1999	*						
	27.0_	641					=		
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	_		(SC) CLAVEY SAND W/FFW O	YSTER			1		
	=		(SC) CLAYEY SAND W/FEW O SHELLS	, is it is		XI28			
	-	1333		1					
	30.0_								
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-43.0	32.0 =	/////			ļ				
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0 5004	IETC-A	AN. 27	PROJECT	FPORT H				WELL IN	P-4

		Ta				iole No.	P-5
DRILL	ING LOG	SOUTH ATLANTIC	PISTALLATI		ILE DIS	TRICT	SHEET OF SHEETS
L PROJECT	GIII'F	PORT HARBOR, MS.	IO. SIZE AND	TYPE O	FBIT	F	/1
2.10017544 /	Coordinates or St		& DATUM F	OR ELEVA	TION SHOW	N (TIML MSL OF NG)	(0)
	2000' LEFT	ANGLE TO BN 64	R. WHEFAC	TORER'S	DESIGNATE	MLW M OF DRILL	
Z DRELLENG AS	ENCY	LE DISTRICT	L			BARGE	
4. HOLE NO. CA	a shown on draw		BURGEN	CL OF DYE	R- TAKEN	CHATUMED	Under Turketh
and the n	umber)	F-5	14. TOTAL N			<u> </u>	
S. RAURE OF DE	WLLER	NIX	EL ELEVATE	IN GROUN	WATER	• SEE 'I	REMARKS"
E. DERECTION C			E DATE HO	LE ?110	25	STARTED	CONSTITUD
X VERTICAL	I MOTHED	DEG. FROM VERTICAL	IT. ELEVATIO			4/5	4/5
7. THICKNESS	OF OVERBLIRDEN		IL TOTAL C			ances:	-12.0
	LED INTO ROCK		IS. SIGNATUS	E OF MS	PECTOR		BRAFTED CHECKED
S. TOTAL DEPT	TH OF HOLE	15.1', (EL27.1) CLASSFICATION OF MATERIAL	<u> </u>			OYD	WRS
ELEVATION -12.0	DEPTH LEGENO	Description)	.3	X COME SECOVERY OR W.C.	SOX OR SAMPLE NO.	Origing time, wo wanthering, et	MARKS rier loss, depth of ro, if significant) o
-27.1	9.0	(CH) DARK GRAY MUCK W/ SANDY CLAY	SILTY		X127	G.W. N/A DRILLED UND	
ENC FORM	1836, IAN, 27	PROJECT	PORT HA	<u></u>		HOLE HO.	D-E

DRILLING LOG	SOUTH ATLANTIC	INSTALLATION MO	BILE DIS	TRICT	SHEET OF SHEETS
GULFPOR	T HARBOR, MS.	IO. SIZE AND TYPE & DATUM FOR ELEV	OF BIT		F/T
2. LCCATION (Coordinates or Station	พ	E DATUM FOR ELET	AINH SHUM	MLW	KGVO)
3. DPILLING AGENCY	GLE TO BN 64	2. MANEFACTORER	DESIGNATIO	N OF DALL BARGE	
MOBILE I	NAME OF THE PARTY	IS TOTAL NO. OF O	VER-	DETURE	COMPUTAGILU GE
4. HOLE NO. (As shown on drawing to and tile number)	P-6	H. TOTAL NAMER		<u> </u>	
s. hame of dreller	IX	S. ELEVATION SHOU		• SE	E 'REMARKS'
E DESCRICH OF HOLE		IL DATE HOLE ?	rear	STARTED 4/5	COMPLETED 4/5
X VERTICAL NCLDED	DEC. FROM VERTICAL	IT. ELEVATION TOP		7/3	-12.0
7. THICKNESS OF OVERSLINGEN 8. DEPTH CRILLED BITO POCK		SE TOTAL COME NE		BORNE	
S. TOTAL DEPTH OF HOLE	14.1', (EL26.1)	19. SIGNATURE OF B		OYD	WRS CHECKED
ELEVATION DEPTH LEGEND	CLASSIFICATION OF MATERIALS Observation)	S X CORE		<u> </u>	REMARKS
-P.O O.O C	,. d	OR U.C.	MO.	veatherin	o, woter bas, depth of g, etc., if significant) g 277 2.082.77
9.0 14.1 1 1 1 1 1 1 1 1 1	(SC) DARK GRAY MUCK W/ S	SANDY	A435		HOLE DRILLED
ENG FORM 1836 JAN. 27 19	988 PROJECT GUL	FPORT HARBO	R, MS.	1	P=6

								<u>+</u>	tole No.		P-7	
DRILL	ING LOC	;	DIVISION	SOUTH AT	LANTIC	NSTALL.		ILE DIS	TRICT		SHEET OF 2	
L PROJECT		GULFF		IARBOR, M		L	AND TYPE O	FBST		F/T		
2. LOCATION (C	coordinate	e or Sto	rtion)	TO 201 4	·	- MILE	FUR ELEVA	INN SHOW	MLW	or NGVO)		
1 dreiling as				TO BN 6)	2. HAND	ACTORER'S	DESIGNATIO	H OF DRELL BARGE			
A HOLE NO 44			E DIST	RICT		GL TOTAL	NO. OF CYT	R-	i betu	alb.	United	TURSED
4. HOLE NO. (A.	umber)	A1 02 041	U TITE	<u> </u>	P-7		HUMBER C		! 2			
S. NAME OF DE	RILLER		NIX			5. ELEV	TION GROUN	DWATER	• S	EE 'RE	MARKS'	
S. DIRECTION C				~~ ~~~		E DATE	HOLE Py	ear	\$7ARTED 4/22		4/2	
X VERTICAL		CLINED		DEG. FROM YE	TILAL	17. ELEV	TION TOP O	F HOLE		i -	-12.0	
7. THICKNESS							CORE RECO		BORNE	.,	Yania	
2 TOTAL DEP			27.	0', (EL3	9.0)	INL SIGNA	TURE OF MS		OYD		WR	S CHECOURD
ELEVATION	DEPTH	FECEND		CLASSIFIC	ATION OF MATERI DESCRIPTION	u.s	X CORE RECOVERY	SAMPLE	Criting til	REMAR	KS loas, dep	th of
-12.0	0.0	С			ď		OR W.C.	NO. f	vection	ha eta.	If algoritic	cont) T blows/FT
-32.8	9.0			(CH) DAF	RK GRAY MUC	K		X142	G.W. N/A	HOLE I		
-32.8 	700		T C	MOZEK CH	AY CLAY W/	LITTLE	1==	8355	1	HOLE MS.		
ENG FORM	1836 HAL (ester	1.271	988		SAND GUL	.FPORT	HARBOR,	MS.			P-7	

DECT	10	ont Sh		-12.0			Hole No.	P-7
		GULFP	ORT HARBOR, MS.	PISTALLA	NOE	NLE DIS		SHEET 2
EVATION g -33.0	21.0	LEGENE	CLASSFICATION OF MATERIA Coood (prior)	LS	Z CORE RECOVERY CR N.C.	T	7	MAKS ter tose, depth of out algoritisant)
	=					'		G MY BLONG/FT
			(CH) DARK GRAY CLAY W/	.ITTLE				
			SAND			B365		
	_							
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39.0	27.0						B.O.H.	
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JRM 183	5-AJAN	27 198	R GUI FPO	ORT HAR	ROD 145		AH 2.00	P-7

							Hole No.		P-8	
DROLLE	NG LOG	DIVISION	SOUTH ATLANTIC	DESTALLA		I F DIG	TRICT		SHEET	7
PROJECT	UII	······································	HARBOR, MS.	IO. SIZE A	D TYPE OF		/ ((() ()	F/T	of 2 sheets	4
1 MA TONI CO			INICOUNT MO	B. DATES	FOR ELEVA	THOSE SHOL	THE CHIEF OF			7
	8000' LE	FT ANGLE	TO BN 64	R, KAME	CTOMERS	MERCHAT	MLW ON OF DOOLL			_
3. DROLLING AGE	NCY	BILE DIST				·	BARGE			
4. HOLE NO. (An	shown on dr		P-8	GL TOTAL	HOLOF OVE SAMPLES	R- TAKEN	2	SD	(MENTALE)	
			<u> </u>		HARDER CO				<u></u>	7
S. HUME OF DRE	FFFH	NIX		S. ELEVAT	NON EROUNE	WATER	• S	E REA	ARKS'	7
S. DIPLECTION OF	HOLE			IL DATE	DE Pyeo	20	STARTED		CONSTRATED	7
X VERTICAL	- NCLINE	D	DES. FROM VERTICAL	-	TION TOP OF		4/22	Ĺ_	4/22	\dashv
7. THICKNESS O	F OVERBURDEN				COME MECO		R RORMG		-12.0	\dashv
B. DEP'TH DPULL					LIPRE OF INS	PECTOR			CONTED CHECK	5
S. TOTAL DEPT		27	'.2', (EL39.2) CLASSFICATION OF MATERIAL	<u> </u>	V case		LOYD	REMAN	WRS	4
ELEVATION Q -12.0		CMS	(Description)		X CORE RECOVERY OR V.C.	SOX OF SAMPLE	Orming the	ne, water ng. eta., 1 a	local depth of f significant) are algorithms.	,,
-32.4	3.0		CH) DARK GRAY MUC	K LITTEE		475		HOLE C		
33.0	21.0		IMORET SAND		1	878				
ENG FORM	1636 JAN. 2	7 1988	GUL	FPORT	HARBOR,	MS.	1		P-8	

DRILLING L	LOG (Cd	ont She	et) ELEVATION TOP OF HOLE	-12.0		H	lole No.	P-8	
PROJECT		GULFP(ORT HARBOR, MS.	MSTALLAT	MOB	LE DIS	TRICT	SHEET 2 OF 2 SHEETS	
ELEVATION	DEPTH b	LECEND	CLASSFICATION OF MATERIAL (D) HOTOLOGY (D)	.s	X COME NECOVERY OR W.C.	BOX OR SAMPLE NO.	Griting time, water weathering, etc., if g	ices, depth of significant)	
-33.0	27.2		(OL) DARK GRAY CLAY W/ I SAND	LITTLE	•	878	B.O.H.		بلسيناسيناسيناسيا
ENG FORM	1836-A	AN. 27	1988 GUI	LFPORT	HARBOR C-140	, MS.	ISLE IA	P-8	

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DRILL	ING LOG	DIVISION	SOUTH ATLA	NTIC	PISTALLAT		LE DIST	TRICT	SHEET OF 2 SHEETS	
L PROJECT	GUI		HARBOR		ID. SIZE AN	D TYPE OF	ert .	F/	Ť	1
2. LOCATION CC	pordingtes or 51	ation			E DATUM	OR ETEAN	FION SHOW	I (TRM, WSL or NGVC))	
Z 3. DRILLING AD	ONE MS E: N	24830	00 E 42140	00	2. HANGE	CTONER'S I	ESIGNATIO	N OF DALL		┪ .
	MOBIL	E DIS	TRICT		C. TOTAL	NO OF OVE	P -	BARGE	LINGSTURED	-
4. HOLE NO. (A)	a shown on drowl umber)	ng title	1			SAMPLES	_	2		4
5. NAME OF DE						MAMBER CO				-
S. DIRECTION O	F HOLF	NIX				KIN CROUPE	MATER	SEE 'R STARTED	EMARKS"	\dashv
X VERTICAL			DEC. FROM VERTIC	AL.	IC. DATE H	OLE	i	***************************************		_
	OF OVERBURDEN		·····			ON TOP OF		<u> </u>	-13.0	_
B. DEPTH DRILL	LED INTO MOCK					come neco Re of insi		BORNE	SAW TED CHEE	5
S. TOTAL DEPT	TH OF HOLE	22	.5', (EL35.5				FL	OYD	WRS	_
ELEVATION	DEPTH LEGENO	1	Desc	n of Material Imption) d	S	X CORE RECOVERY OR W.C.	BOX OR SAMPLE NO.	REM Origing time, wot weathering, ato	ARKS er loss, depth of i., if significant) g SPT sloss.	
-13.0	0.0	, ·				•	Ŧ	Vocilia Ing oil	g SPT ALCHS.	<u>~</u>
-34.0 ENG FORM	3.0		(CH) DRAK	GRAY MUCK	ILFPORT	HARB0	82 4	G.W. N/A DRILLED UN	A. HOLE IDERWATER	
ENG FORM	1836		PROJECT	GU	LFPORT	HARBO	R	MOLE NO.		
1000	Stration JAM 27	M 88	ı		-141			I		

)rilling	LOG (Con	t Sheet)	ELEVATION TOP	OF HOLE	13.0		F	io le No.		1	1
TOLECT		GULFPOR	T HARBOR		PISTALLAT	MOB	ILE DIS			SHEET 2 OF 2 SHEETS	1
ELEVATION Q	DEPTH L	ECENO 0	CLASSFICATI Dec	ON OF HATERIAL Origition) d	\$	X CORE RECOVERY OR W.C.	BOX OR SAMPLE NO.		REMARKS , water 1 , etc., If	oss, depth of algnificant) spt stoss/ft	1
-34.0 -34.5			(CH) DRAK	GRAY MUCK			B24	*****	· · · ·		E
	225		(MH) SAMPLED	NOT DESCR	BED		В6				-
-35.5	22.5	9.8						B ₋ O ₋ H ₋		<u> </u>	†
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9.0		T	1	CLASSFICATIO	H OF MATERIAL	<u>.</u> .	X CORE			REMAR	KS.	
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	ENG FORM	1836 Name) JAN 27		PROJECT	GU	LFPORT	HARBO	R		HOLE HO.	I-A	

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				HANDUK		R DATUM F	OR ELEVAT	TON SHOW	N (TEM, MSL or			\dashv
2. LOCATION (C. Z.C	oordinate ONE MS	E: N	люп) 24260	D E 42600	00	IZ. MANUFA	CTORER'S	ESIGNATIO	MLW N OF DRELL			
3. DARLLING AGE			E DIST			L			BARGE			
4. HOLE NO. (A)	s shown i			-		IS. TOTAL	OLOF OVE	R- TAKEN	DETURNE		UNCASTURB	D
and the nu	umber)			2		HL TOTAL				i		\dashv
5. NAME OF DR	LLER		NIX			S. ELEVATI	ON CHOUND	WATER	SEE	'REMA	RKS'	\dashv
S. DIFFECTION O	F HOLE					SE DATE H	X.E		STARTED		COMPLETED	
X VERTICAL	N	CLINED		DEG. FROM VERTICA	u.	IT. ELEVATI	ON TOP OF	HOLE		<u> </u>	-11.0	-
7. THICKNESS C	OF OVERBU	ROEN				S. TOTAL			DORBIG		-11.0	
B. DEPTH DRULL						ISL SIGNATU		ECTOR	-		SOUFTED C	HECKED
R TOTAL DEPT	H OF HOL	<u> </u>	25	3', (EL36.3)) N OF MATERIAL	<u> </u>	* ~~		OYD		WRS	
ELEVATION	DEPTH D	LEGENO		Ø se cr	ription)	•	X CORE RECOVERY OR W.C.	SAMPLE NO.	Origine time,	REMAKS Water k	as, depth (9 †
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RILLING I	.0G (Cd	ont She	eet)	LEVATION	TOP OF HOL		-11-0		Н	ole No.		2	7
POJECT		GULF	FPORT	HARBOR	₹		PSTALLAT		ILE DIST			SHEET 2 OF 2 SHEETS	1
ELEVATION a -32.0	DEPTH B 21.0	C		CLASSE	CATION OF Description	MATERIAL!	5	2 CORE RECOVERY OR W.C.			REMAK! D, water G, etc., if	Siona, depth of algoriticant) and moss/fi	
	25 3			(CH) DF	RAK GRAY	/ MUCK			75	G.W D r ille		HOLE RWATER	
-36.3				•						R.O.H.			
NG FORM ICADO FOO	1836-A elmão) JA	1 11. 27 1	1986	MOJECT		GL	JLFPORT	HARB(DR	H	OLE NO.	2	1

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DRELL	ING LOG	SOUTH ATLANTIC	PISTALLA	TIÓN MOB	ILE DIS	TRICT	SHEE!	T SHEETS
L PROJECT	GUI	FPORT HARBOR		ND TYPE OF	FBST	F/1	Γ	
2 LOCATION -	Coordinates or Sto		E. DATISM	FOR ELEVA	TICH SHOW	HICTERLINSE OF HIGHD)	
	ZONE MS E: N	1 235733 E 431133	2. WHUF	ACTORER'S	DESIGNATIO	N OF DRALL		
3. DRELLING AC	ENCY MOBIL	E DISTRICT				BARGE		TUPED
4. HOLE NO. U	us shown on drawle susber)		BLANDEN	NO. OF OVE SAMPLES	R- TAXEN		U.S.	
5. NAME OF D			- M. TOTAL	KLEER CO	XE BOXES			
		NIX	B. ELEVAT	TION CROUM	MATER	• SEE 'RI		
& DESECTION (IS DATE	HOLE		ST LECTED	COMPL	LTED
X VERTICA		DEC. FROM VERTICAL	IT. ELEVAT	NO POY HOR	HCLE		-12.0)
	OF OVEREUROEN			CORE RECO		80%6		
A TOTAL DEP	TH OF HOLE	16.5', (EL28.5)	III. SICALAT	UFE OF DAS	Pector Fl	OYD	WR.	S Catalan
ELEVATION		CLASSFICATION OF MATERIAL	LS	X COSE	SOX OR	REM.	ZXX	
-12.0	DEPTH LEGEND	(Description)		X CORE RECOVERY OR B.C.	MO.	Origina time, water	h alonific	oth of pant)
-28.5	9.0	(SC-H) DARK GRAY MUCK W	SAND		B255	G.W. N/A. DRILLED UNDE	HOLE	
ENG FORM	1836 1 T C NALcenera	PROJECT GI	ULFPORT	HARBO)R	HOLE HO.	3	
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DRILL	ING LOG	SOUTH ATLANTIC	DISTALLA	HOIT HOIT	u F D	ISTRICT			ET SHEETS
PROJECT	~	ULFPORT HARBOR	IO. SIZE A	NO TYPE O			F/1		37E.63
						OWN CTIMA, MSL			
LOCATION CO. Z	ordinates or 1 ONE MS Es	Station) N 229267 E 435700	<u> </u>	.0700	AF COL	MLW			<u> </u>
L DRILLING AGE	ENCY		Z. WALF.	CIUNER'S	UR. SAUTU	TION OF DALL BARGE			
LINE PLACE		NLE DISTRICT	C. TOTAL	NO. OF OY	ER-	967	WALE .	UNG	a TURBED
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NAME OF DR	LLER	NIX	ļ	HUMBER CO			EE IDE	MADVC	
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X VENTICAL		DECL FROM VERTICAL	M. DATE	DLE				· · · · · ·	
Trackings o	F OVERBURDEN			ION TOP O				-15.	5
	ED: eCTO ROCK			CORE RECO		OR BORNS		Y 22.2	
TOTAL DEPTI		17.5', (EL33.0)		UNE OF INS		FLOYD			TED CHECKED S
ELEVATION	DEPTH LEGEN	CLASSECATION OF MAT	ERIALS	X CORE		R I	NEMA	RKS.	
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DRILL	ING LOG	;	DIVISION	SOUTH ATLAN	TIC	NSTALLA		ILE DIS	TRICT	}	SHEET OF I S	EETS
L PROJECT		GUL	FPORT	HARBOR			D TYPE OF	MT		F/T		
2. LOCATION C	oordinate					IL DATUM	FOR ELEVA	TION SHOW	N CTEM, MSL MLW	or NGVD)		
Z	ONE MS	E: N	21960	0 E 442733	<u> </u>	2. WHE	CTORER'S	CESIONATIO	N OF DRILL			
3. DRILLING AG	EMC7	MOBIL	E DIS	TRICT					BARGE	UPBED	T	
4. HOLE NO. (A	& shown o	on drawin	g title	5		BURCEN	NO. OF OVE SAMPLES	TACEN			UNDISTU	The state of the s
S. NAME OF DE				<u> </u>		M. TOTAL	NLAMER CO	23XOS 39X				
			NIX			E ELEVAT	ION CROUM	OWATER	a :	SEE 'REM		
E DIRECTION O		CLNED		DEG. FROM VERTICAL		M. DATE H	OLE	į	STARTED		COMPLETE	P
7. THICKNESS				TOTAL TENTION		17. ELEVAT	ION TOP OF	HOLE			-15.5	
S. DEPTH DRUL							COME MECO		BORING			
A TOTAL DEPT			15	.5', (EL31.0)		IN SIGNATI	ME OF INS		OYD		WRS	CHECKED
ELEVATION	DEPTH	LEGENO		CLASSIFICATION Descri		S	X COME	BOX OR	McHan (REMARK	5	-
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DRILL	NG LOG	DIVISION	SOUTH ATLANTIC	PISTALLA1	NON MOR	ILE DIS	TRICT		SHEET !	7.
L PROJECT	ĢU		HARBOR	IO. SEEE A	D TYPE OF	FMT		F/T	<u> </u>	
	pordinates er St	ation)		E. DATUM	FOR ELEVA	TIOH SHORT	MLW	or NGVO)		
Z 3. DARLING AN				IZ. WANGE A	CTOPERS	DESIGNATIO	N OF DRALL BARGE			
A 1/24 P 1/2 /4		E DIST		CS. TOTAL	NO. OF OVE	P	DETU	4 D	UNESTURBE	D
and the n		ng Time	6	<u></u>	MANGER CO		<u> </u>			
S. NAME OF DR	ALLER	NIX		<u>}</u>	ON CHOUN		• S	EE 'RE	MARKS'	
6. DIRECTION O				ML DATE H	OLE		STARTED		COMPLETED	
X VERTICAL			DECL FROM VERTICAL	IT. ELEVAT	DN TOP OF	HOLE		i	-23.0	\neg
8. DEPTH DREES	F OVERBURGEN			1	COME RECO		BORNE			
R TOTAL DEPT		2.	5', (EL25.5)	IB. SIGNATI	RE OF RIS		OYD		WRS	€COZD
ELEVATION	DEPTH LEGENO	T	CLASSIFICATION OF MATE	PNALS	Z COME RECOVERY OR W.C.	BOX OR SAMPLE MO.	(Oction 4)	REHAV	KS.	
-23.0	0.0	1	, d		OR W.C.	MQ.	weather	na eta	teas, depth (i if algoriticant) set suc	E/FT
-25.5	2.5		(SM) SILTY SAND)		XI32		W.N/A. ED UND	HOLE ERWAYER	
			POJET					ioi ià	-	
ENG FORM	1836 Note: 1814 C. 2	1000	PROJECT	GULFPORT	HARBO)R	1	KOT RY	6	—С.

SUMMARY OF TEST RESULTS

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GULPPORT HARBOR AND CHANNEL IMPROVEMENTS, GENERAL DESIGN MEMORANDUM LABORATORY TEST RESULTS FROM SAMPLES OBTAINED VIA 1987 VIBRACORE BORINGS

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			LABOR	LABORATORY TEST	1	SULTS	FROM	SAMPLI	ES OBTA	VINED V	RESULTS FROM SAMPLES OBTAINED VIA 1987 VIBRACORE BORINGS	VI BRAC	ORE BOF	INGS				
FILE NAME PORT	PORT																	
BORING	SAMPLE EL. MLLW	LAB	FIELD	WATER	LIQ. LIMIT	PLAS. LIMIT	PI	L01	SPEC GRAV	DRY S	SAT. WT. (CALC'D)	TOR TSF	PEN TSF	C TSF	PHI	q TSF	SIEV PETR ANAL ANAL	T. A
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	-39.5/-48.8		SP	,	ı		1			ı		1 4	, ,	1	•		1	
	-42.9/-43.4		뚱	35	•		1			ı		69.69	3 0 (ı	ı	ı	1	
	-45.6/-46.1		CH	29	ı		ı					8.13	ر. د.		ı	ı	1	
GP-8-87	-14.8/-17.8		Ä	147	1		ı		ı	ı		ı	i	,		ı		
•	-17.8/-28.8		Ä	ı	•		1		,	,		ı	ı	1	1	ı		
	-24 R/-23 R		M.	98	74		25		2.65 4	15.4		ı	ŀ	1	ı	ı		
	23.8/-26.8		ÜS	57	54	16	38		2.64 6	55.9		ı	,	1	1	ı	MA/HY -	
	-26 8/-29 5		H	•	1	_	ı		1	•		9.15	.s	ı	1	ı	•	
70-0-07	25 3/-35 8		ž	223	ı	ı	1		2.64	ı			,			1	1	
10-6-40	-33.3/-75.02.		X.	27	dN		NP		•	,		ı	ı	ı	ı	1	HA	
CD-18-87	rr	5 5	; ;	96	83	27	26			ı		8.85	8.8	1	ı	1	HA/HY -	
20 27	-36 6/-37 1		X.	. 1	•		1		ı	•		ı		ı	,	ı	- Y	
	1.10 /0.00		;															

SIEV PETR ANAL ANAL MA/HY MA/HY ¥ ¥ ¥ q TSF PHI LABORATORY TEST RESULTS FROM SAMPLES OBTAINED VIA 1987 VIBRACORE BORINGS TSF GENERAL DESIGN MEMORANDUM PEN TSF 80.0 Ø.15 B.12 TOR 8.3 SAT. WT. (CALC'D) 109 121 105 113 75.9 98.1 DRY WT. GULPPORT HARBOR AND CHANNEL IMPROVEMENTS, 2.60 2.63 SPEC GRAV LOI Id PLAS. WATER LIMIT LIMIT 16 NP NP NP 18 ΑP LIO. S6 NP NP NP å 28 37 37 34 21 29 FIELD CLASS SP-SH SH SC ML SC SH 5 E \mathbf{SP} E CH SP-SH SP-SH SM-SC CH, SC CLASS LAB -33.9/-36.9-36.9/-39.9 -38.5/-39.8 -23.4/-23.9 -43.9/-44.4 -29.8/-30.3-32.3/-32.8 -45.8/-46.3 -19.4/-19.9 -33.1/-33.6 -23.4/-23.9 -36.3/-39.3 -44.5/-45.8 -50.3/-50.8 -29.9/-38.4 -34.8/-35.3 -34.9/-35.4 -36.9/-37.4 -33.3/-36.3 39.3/-42.3 -24.8/-25.3 -38.8/-39.3 -43.8/-44.3 -29.9/-38.4 -46.2/-46.7 -44.6/-45. -36.2/-36. -42.9/-43. EL. MLLW SAMPLE GP-18-87 GP-19-87 GP-11-87 GP-12-87 GP-13-87 GP-14-87 GP-15-87 GP-16-87 GP-17-87 BORING

-41.3/-41.8

GP-28-87

LAB FIE CLASS CLASS CLASS CLASS CLASS CLASS CLASS CLASS CLASS CLASS CHAS	LABORATORY TEST RE LABORATORY TEST RE LABORATORY TEST RE LIAD. SC SP NP SP SP SP NP SP SP SP NP SP SP SP NP SP SP SP NP SP SP SP NP SP SP SP NP SP SP SP NP SP SP SP NP SP SP SP SP NP SP SP SP SP NP SP SP SP SP SP SP SP SP SP SP SP SP SP S	LABORATORY TEST RESULTS FIELD	MATER LIMIT LIMIT WATER LIMIT LIMIT WATER LIMIT LIMIT WATER LIMIT LIMIT WP NP NP	LIMIT LIMIT LIMIT LIMIT NP	NP NP NP NP NP NP	SAMPLES OF LOI SPEC GRAV	CC DRY VV WT.	VIA 1987 SAT. WT. (CALC'D)	IN THE STATE OF TH	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BORINGS C TISF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ħ	다. 다	SIEV ANAL HAA HAA HAA HAA HAA HAA		
GP-27-87 GP-28-87 GP-29-87 GP-38-87	-38.4/-38.9 -36.9/-37.4 -31.8/-32.3 -41.8/-42.3 -22.9/-23.4 -43.9/-44.4 -33.1/-36.1 -46.1/-48.6 -45.1/-45.6 -22.1/-22.6 -28.6/-29.1 -35.6/-36.1	#	5 % 5 % % % % 	187 24 188 - 98 161 85 79 28 188	104 NP 104 104 NP NP	29 NP - 29 NP - 19 NP - 19 NP - 19	NP NP NP NP		233	1	6.694 6.11 6.11 6.25 6.89	20 1 20 1 1 20 1 1 1 1 1 20 20 20 1 20 20 20 20 20 20 20 20 20 20 20 20 20				HA HA HA HA HA HA HA HA HA HA HA HA HA H

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			GULFPORT LABORATORY	PORT 1	HARBOR TEST RE	AND CH.	ANNEL PROM S	IMPRO	VEMENT	S, GENI	GULFPORT HARBOR AND CHANNEL IMPROVEMENTS, GENERAL DESIGN MEMORANDUM BORATORY TEST RESULTS FROM SAMPLES OBTAINED VIA 1987 VIBRACORE BORINGS	IGN ME VIBRAC	SHORANDU SORE BOR	INGS				
BORING	SAMPLE	LAB	1		LIO	1. PLAS.	PI L	S 107	SPEC	DRY S.	SAT. WT.	TOR	PEN	ပ	PHI	ים	SIEV PETR	TR
	EL. HLLW	CLASS	CLASS	WATER	3	LIHIT				- 1	CALC'D)	TSF		TSF		- 1	ANAL AN	ANAL
GP-32-87	-26.4/-26.9	SP-SH		34	ı		ı			ı	,	ı	ı			,		
	-32.4/-32.9	ಕ	뜻	93	11	24	53	i	1	ı	:	8.814	9.8	ı	1	ı	•	
	-38.9/-39.4	SH	SH	ı	,	1	ı								٠	,		
GP-33-87	-30.1/-30.6	ಕ	ಕ	101	98	24	62		.64	,	91	8.874	9.8		ı		Į.	
GP-36-87	-36.7/-37.2	¥	붓	115	ı	,		7.4 2	2.68	ı	83	ı		1	ı	ı		
	-44.2/-44.7	픙	ರ	119	1		1			ı	ı	9.968	!	•	1	ı		
	-47.7/-48.2	SH	SH	23	ı	ı				ı	ı	,	•	1	ı	1	,	
GP-37-87	-29.6/-32.6	픙	J J	178	117	28	83			59	81	,	ı		ı		•	
	-32.6/-35.6	చ్	ರ	126	ı	ı	1			37.7	82	ı		•	t	ı		
	-35.6/-38.6	품	CH	111	116	32	84			41.7	87	•	,	1				
	-38.6/-39.1	ಕ	픙		1	ı	í			•	•	0.02	0.02		ı	ı		
GP-38-87	-48.5/-41.8		CH		117	36	87			ı	1	8.83	9.5	ı	ı		•	
GP-39-87	-33.6/-36.6		픙	119	182	53	73	6	2.71	39.5	1	ı		ı	ı	ı		
	-36.6/-39.6		CH	116	ı	1	,	ı			1			,	,	ı		
	-43.6/-44.1	3	3	119	1	1	ı	ı	1	1	1	0.038	6.6	ı	ı	ı	•	
GP-48-87	-42.7/-43.2	3	E.	184	•		1	ı			ı	0.67	B	ı	1	,		
GP-42-87	-44.6/-45.1	3	СН	120	122	4	78			ı	1	8.87	æ.		ı	ı		
GP-45-87	-36.7/-39.7	ಕ	픙	150	116	38	78	ı	2.65	33.5	84	1		ı	•		MA/HY.	
	-46.7/-47.2	3	E	186	1	1	ı	ı	ı	1	1	9.816			ı	ı	,	
	55.1/56.2	E	CH	83	1	,		1		,	ı	0.11	8.85			ı	•	
GP-48-87	-34,4/-34.9	3	¥	137	114	53	85	ı			1	9.83	9.8	ı	ı	ı		
	-37.9/-38.4		SH		ı	ı	ı	ı	1	,	1	ı	1			1	ΉÀ.	
GP-58-87	-36.5/-48.8	ಕ	당	133	118	53	83	ı	1		t	8.87	æ.		1	1	·	
GP-51-87	-29.9/-38.4	SP	SH		MP	S.	ď	ı		1	1	1	1		,	ı	4A	
	-37.9/-38.4	SH	Ä	30	NP	ď	ď		1	1	1	Í	1	ı	ı	ı		

SIEV PE Anal an	ŝ	<u>.</u>	· \$	<u> </u>	Ś	<u> </u>	MA/HV	: :	W.			MA	¥	HA.			1		1		MA.			A.		•	HA/HY -	HA	
q TSF			l	,	: 1	1	ı	ı	ı	,	ı	1	ı	ı	ı	ı	ı	ı	ı	1	,	1	1	ı	1	,	ı	1	1
PHI	•	,				,	,	ı	ı	ı	1	•		٠	ı	,	ı	1	ı	5	ı		1	ı	ı	1	ı	ı	ı
NDUM BORINGS C TSF	,	,		,	. 1	ı	,	,	•		ı	ı		ı		1	•	1	ı	ı		ı	1	ı	ı	1	1	1	ı
«	1					,	ı	9.25) : : 1		8.0	· ·	ı		6.4		,	9.25			ı	9.18		1	1	9.1	ı	ı	ı
IGN MEMOR VIBRACORE TOR PEN TSF TSF		,		,		ı		0.11			0.864		,	ı	Ø.2		,	0.114			,	0.25		,		0.138	1	1	ı
L DES1 1987 V WT. 7			5																										
VIA 198 SAT. WT	•	1	11	· ,	-	,	•	1	1		1	1	,	,		•	•	•	i					98	1	1	12]	1	•
		ı	84		86		ı			,		,			•	1	,	,			•			58.9	,	•	89.7	96.1	,
HARBOR AND CHANNEL IMPROVEMENTS, G TEST RESULTS FROM SAMPLES OBTAINED LIQ. PLAS. PI LOI SPEC DRY LIMIT LIMIT	,		2.66		,	1	1		,			•		•				•					•	2.61	•	•	2.67	•	ı
SAMPI LOI	ı	ı	ı		ı	1	ı	1	,	1	ı	1	i	1	1		,	•	÷	1	١	,	ı	ı	,	•	í	•	•
FROM PI	d.		d N		,	1	ı	ı	ΝÞ			NP	ΝÞ	ı	19	1	,	1		•	Νb	ı	1	42	1	ı	28		
HARBOR AND CH TEST RESULTS LIQ. PLAS. LIMIT LIMIT	ď		ďĸ	,	,	,	•		NP			ΝĐ	ΝP		16				ı		Ν		•	16			16	-	ı
EST RELIO.	WP		Νρ		,			ı	МР		,	NP	NP		35			ı	1	ı	NP	,		58	1		36	ŀ	t
_ ≃	ı	•	33	,	34	1	27	99	•	,	138	•	t	21	56	16	53	63	38	•	1	18	•	72	,	61	31	23	•
GULFPORT LABORATORY FIELD \$ CLASS WATE	SP	Sp	SP	SP	SH	SH	SH	ಕ	g;	SP	CH	SP	SP	SH	CH	ૠ	SH	ᄄ	SH	SP	SP	ಕ	SH	SH	SH	ಕ	CH	SP	SP
LAB	SP	SP	SP	SP	1	SH	SH	SC	SP	SP	CH	SP	SP	S∵-H	သင	품	SH	£	SC-H	SP	Sp	ಕ	SP-SH	SC-H	SH	ಕ	S.		SP-SH
SAMPLE I EL. HLLW	-21.6/-24.6	-24.6/-27.6	-27.6/-38.6	-38.6/-33.6	-33.6/-36.6	9.9	-24.2/-24.7	-31.2/-31.7	4.1/-14.	-16.8/-16.5	-28.5/-21.8	.8/-31.	<u> </u>	-35.6/-36.1	-48.6/-41.1	•	7	₹.	7	-48.1/-49.6	-19.9/-28.4	-35.9/-36.4	-42.9/-43.4	-15.8/-18.8	-21.8/-21.5	-26.8/-26.5	-38.8/-33.8	-33.8/-36.8	-36.8/-36.5
BORING	GP-52-87						GP-53-87		54-8	GP-55-87			GP-56-87			GP-57-87					GP-58-87			GP-59-87					

			כמני	CULPPORT HARBO	IARBOR	AND CH	IANNEL	I HPF	ROVEMEN	TS, CE	OR AND CHANNEL IMPROVEMENTS, GENERAL DESIGN MEMORANDUM	ESIGN	TEMORANI	HD(
				LABORATORY TEST		SSULTS	FROM	SAMPL	LES OBT	AINED	RESULTS FROM SAMPLES OBTAINED VIA 1987 VIBRACORE BORINGS	7 VIBRA	ACORE BC	RINGS				
BORING		LAB		go.	L10.	PLAS.	ΡΙ	roi	SPEC	DRY	SAT. WT. TOR	TOR	PEN	U	PHI	0	SIEV PETR	PETR
	EL. HLLW	CLASS	CLASS WATER LIMI	WATER	E⊸I	LIHIT			GRAV		(CALC'D)	TSF (TSF	TSF		TSF	ANAL ANAL	AHAL
CP-68-87	-17.3/-17.8		¥	•	,	,	ı	1			ı	,	,		ı	ı	,	•
	-19.3/-19.8		XS.	,		ı	1	1	,	ı		,	ı	•	,	,	1	,
	-26.8/-27.3		CH	62	89	18	42	,	•		•	•	•		,	1	í	,
	-38.8/-31.3		SH	•	,	,	,			٠	,				•	,	MA	1
	-36.8/-37.3	3	땅	49	55	16	39	•		ı	ı	ı	,	ı	i	t	£ ,	,
	-48.3/-48.8		SH.	•	ı	ı		•	•	,	ı	,	1	ı	,	ı	,	
GP-61-87	-14.6/-15.1		H	162	183	24	19	7.7	,	ı	ı	ı	ı	ı	ı	ı	i	,
	-18.6/-19.1		ว	38	7.4	13	25		ı	ı	ı	,	•	ı	ı	ı	,	ı
	-26.8/-27.3		CH	33	47	15	32	1		·	1	1	ı	,	,	ı		
	-29.4/-29.9		ች	25	28	19	6	ı		,	ı	ı	ı	,	,	ı	,	,
GP-62-87	-36.3/-36.8		SP			ı	ı	1	,	•		ı	1	ı	ı	1	MA	•
:-1	42.8/-43.3		ಕ	23			ı	•	•	٠		9.15	Ø.25	ı	1	f		,
	-47.3/-47.8		Ä	25		,	ı	1	,	ı		1	,	ı	ı	1	,	,
GP-63-87	-45.3/-45.8	픙	5	111	123	48	83	,	,	ı	,	8.2	0.1	,	ı	ı	HA/HY	,

GULFPORT SHIP CHANNEL SUMMARY OF LAB. TEST RESULTS ON SOIL SAMPLES

	Dant		Moisture			Percent	t Passing	Sieve	lumber	Hydrometer	meter	Atter	Atterbergs	Soil
Hole No.	From	, To	Content	18	28	40		188	200	& Silt	& Clay	LL	PI	Class.
55-1	•	5.8						100	66	62		148	115	НО
	5.8	18.8				100	66	86	96	. 96	48	216	166	ЮН
	10.0	11.5			166	66	94	74	3.8	12	18	33	17	၁၄
SS-2	8	4.9	188		166	66	97	94	93	2 6	37	200	151	ЮН
	•		212					166	66	58	49	153	187	НО
	•	9.3	16		69		59	32	22	7	15	29		၁၄
	•	19.8	22		188	93	62	37	27	9	21	22	11	၁၄
58-3		8.8	218				188	66	66	52	47	222	175	ОН
	8.8	12.₿	267				188	66	66	42	57	150	169	НО
	2.	14.8	89			188	95	85	79	43	36	11	28	ЮН
	•	15.1	83			166	95	87	79	32	47	186	11	CH
SS-4	8	6.9	285						188	44	99	190	136	НО
		15.0	228						66	26	43	279	223	НО
	15.8	16.6	36		188	66	98	88	46	34	12	52	9	SM-SC
SS-5	Θ.	7.8	198					100	66	42	57	202	150	НО
c		15.2	216						166	52	45	202	140	НО
9-SS -	•	6.9	236						100	99	34	337	283	Ю
57	6.8	13.7	282						188	63	37	378	331	ЮН
28-7		6.8	2.1.1						166	52	48	279	233	НО
	8.9	13.7	237						166	57	43	220	149	НО
82-8	8.8	•	11		166	86	83	86	64	34	36	136	92	ОН
		5.	189			186	66	66	86	55	43	344	277	ЮН
	12.8	13.5	28		198	96	96	79	62	31	31	57	36	E.
88-9		•	288						186	51	49	145	92	ЮН
	8.8	•	274						166	28	28	ı	,	НО
		6.	92			188	66	66	98	18	28	105	74	E E
SS-18	9	•	228						180	48	52	147	167	ЮН
	•	13.5	79					100	86	69	29	71	37	.
SS-11	9.8	•	281			•		188	66	46	53	193	147	ЮН
			203				100	66	98	48	20	140	98	ЮН
			25		188	66	96	86	14	6	2	ı	1	SH
SS-12	8.	•	191			166	66	96	94	51	43	178	139	ЮН
	7.2		23			188	92	65	15	11	∢	1	ı	NS.

GULFPORT SHIP CHANNEL SUMMARY OF LAB. TEST RESULTS ON SOIL SAMPLES

	Dept)t	Moisture			Percent	nt Passing	ing Sieve	Number	Hydro	Hydrometer	Atte	Atterbergs	Soil
Hole No.	From	To	Content	18	28	48	€9	188	288	\$ Silt	& Clay	13	PI	Class.
SS-13	9.	6.5	288				188	66	96	99 95	8	136	86	HO
	6.9	8.8	31		166	96	96	76	21	13	80	•	1	သင္သ
SS-14	9.6	9.5	183					168	66	54	45	139	96	НО
	9.5	11.8	22		188	98	96	72	39	22	11	27	13	၁င
SS-15	8.8	7.5	174				188	9.1	92	53	39	130	86	НО
	7.5	9.6	22		190	98	16	74	34	21	13	24	œ	၁င
	9.6	10.5	28			186	97	69	24	17		1	ı	၁င
SS-16	B .8	4.9	286					188	66	55	44	130	92	МО
	4.9	9.4	22			166	66	93	6 9	42	18	38	13	บี
SS-17	8.8	6.9	143	188	66	66	98	91	71	34	37	73	53	CH
	6.5	8.8	38			166	97	78	31	19	12	,	1	၁င
SS-18	9.8	5.0	286				188	98	86	62	36	139	83	НО
	5.8	6.5	26		188	66	82	33	12	7	S	1	•	SH
SS-19	8.8	3.8	194					188	66	59	40	227	188	НО
	3.8	5.3	28		166	66	92	. 71	39	29	16	27	12	၁င
SS-28	8.	4 .3	175				166	96	88	45	43	129	74	ЮН
	4.3	5.8	39			188	96	81	52	39	13	41	22	13
	5.8	7.3	46	188	66	66	96	85	61	39	22	4 9	36	T)
SS-21	9.6	6.5	227				188	66	97	53	44	196	149	НО
	6.5	8.8	214				188	99	95	44	51	163	118	ОК
-4	9.6	21.5	92			166	66	95	92	37	55	101	99	CH
	21.5	22.5	92			100	86	94	91	32	59	72	36	HH
2	8.8	25.3	99			100	66	98	93	37	26	110	79	CH
٣	8.8	16.5	47		168	98	91	6 3	39	14	25	51	36	SC-H
4	8.8	17.5	142					166	66	37	62	1	1	,
5	8.8	15.5	39		166	97	91	74	45	21	24	29	41	SC-H
9	8.8	2.5	42	100	98	16'	92	99	20	14	9	1	ı	SM

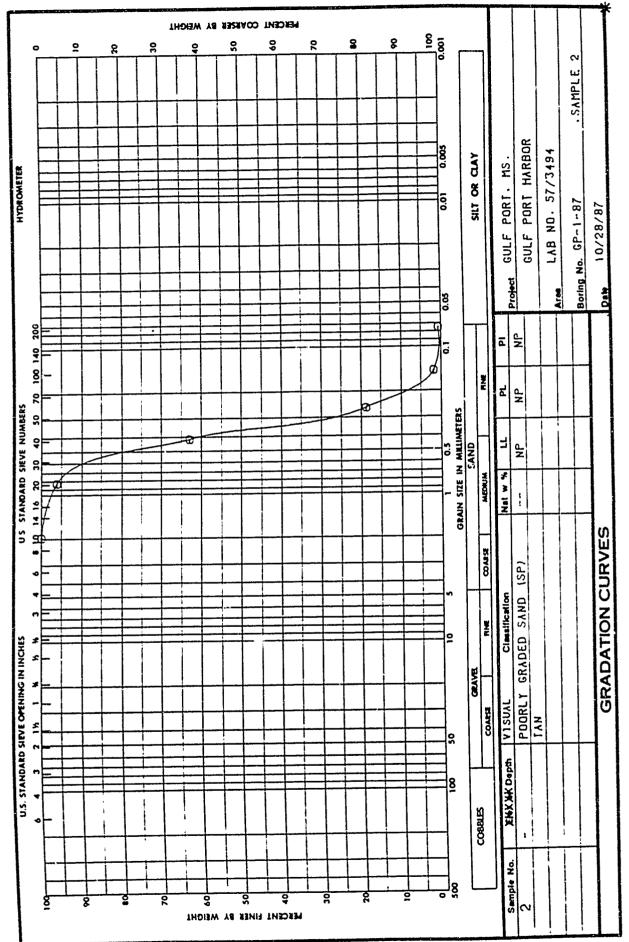
GULFPORT SHIP CHANNEL SUMMARY OF LAB. TEST RESULTS ON SOIL SAMPLES

	Depth	th	Moisture	 		Perce	nt Pass	Percent Passing Sieve Number	Number	Hydrometer	neter	Atte	Atterbergs	Soil
Hole No.	Fr	To	Content	10	28	48	99	168	200	\$ Silt	Silt & Clay	LL	PI	Class.
p-1	9.9	12.5	11		188	86	89	63	46	9	40	47	27	၁၄
	12.5	22.6	28		169	94	86	55	16	ထ	œ	ı		SH
	22.6	24.6	2.0		100	93	78	55	13	7	9	19	7	SH
P-2	69.	17.8	22		166	94	88	56	25	18	15	23	တ	SM-SC
P-3	9.9	19.4	23		166	66	95	11	36	14	22	17	m	SH
P-4	8.	25.5	38		198	66	97	89	72	24	48	51	36	CH CH
	25.5	32.0	24			100	97	8.7	40	15	25	34	19	၁င
	32.0	41.0	28	196	89	84	63	31	14	₹	16	1	ı	ЭH
P-5	6	15.1	111	ı	168	9.6	95	98	9/	99	10	54	36	Œ
9-d	9	14.1	39		188	96	87	68	32	1.0	22	2.1	6	၁၄
P-7	69	20.8	9 6				100	66	9.1	58	39	186	67	CH
	20.8	27.8	61		100	66	97	96	78	4 8	36	93	78	Œ
p-8	6.6	20.4	93				166	66	96	36	69	119	88	3
	28.4	27.2	52		108	98	93	83	77	21	26	4	33	บี
6-d	69	14.3	36		100	97	82	48	23	7	16	32	17	သင
P-18	9.6	29.8	63		168	66	97	91	78	32	46	92	78	CH
1-A	8.	25.8	56		198	96	8.7	69	26	9	20	74	28	품

Most or all of the OH classifications in this summary would actually classify as CH when plotted on a plasticity chart, and records do not show that loss-on-ignition tests were performed. The classifier apparently observed a large amount of organic material in the samples, visually making the distinction between OH and CH classifications. Note:

Req. No. 42-87-FAM

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060



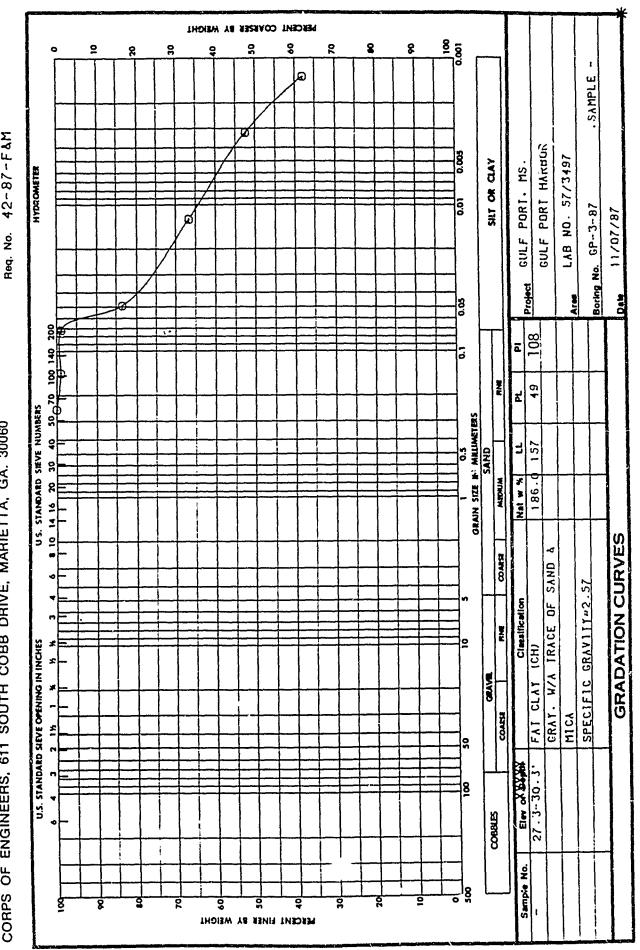
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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

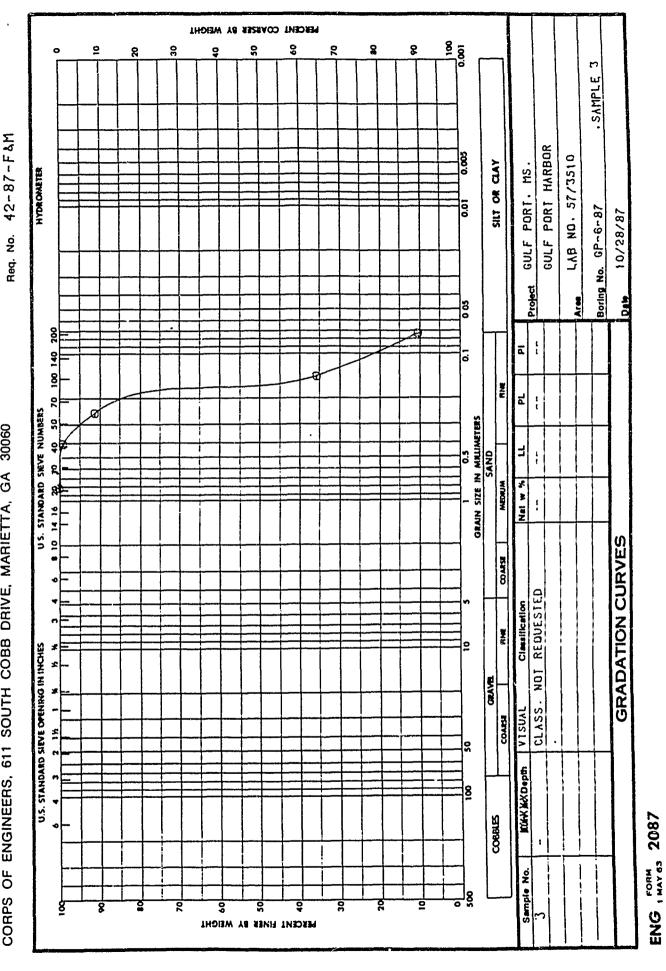
Req. No. 42-87-FAM

PERCENT COARSER BY WEIGHT 0. 0. 0. 0. 0. 0. 2 2 8 9 SAMPLE CULF PORT HARBOR LAB ND. 57/3499 SILT OR CLAY CULF PORT. MS. HYDROMETER Boring No. GP~3~87 11/07/87 Project g 100 140 <u>a</u> 2 턴 40 50 07 U.S. STANDARD SIEVE NUAIBERS 8 10 14 16 20 30 40 50 7 GRAIN SIZE IN MALLIMETERS 56 3 SAND Hat w % 22.3 MEDIUM OF GRADATION CURVES GRAY. W/SOME SAND & TRACE COARSE SPECIFIC GRAVIIY-2.62 Classification 7 U S. STANDARD SIEVE OPENING IN INCHES CLO GEA VE LEAN CLAY COARSE H1 CA 2 7 S 33.3-36.3 Eler of Digital 8 COBBLES Sample No. 늰훓 8 99 PERCENT FINER BY WEIGHT

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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA 30060

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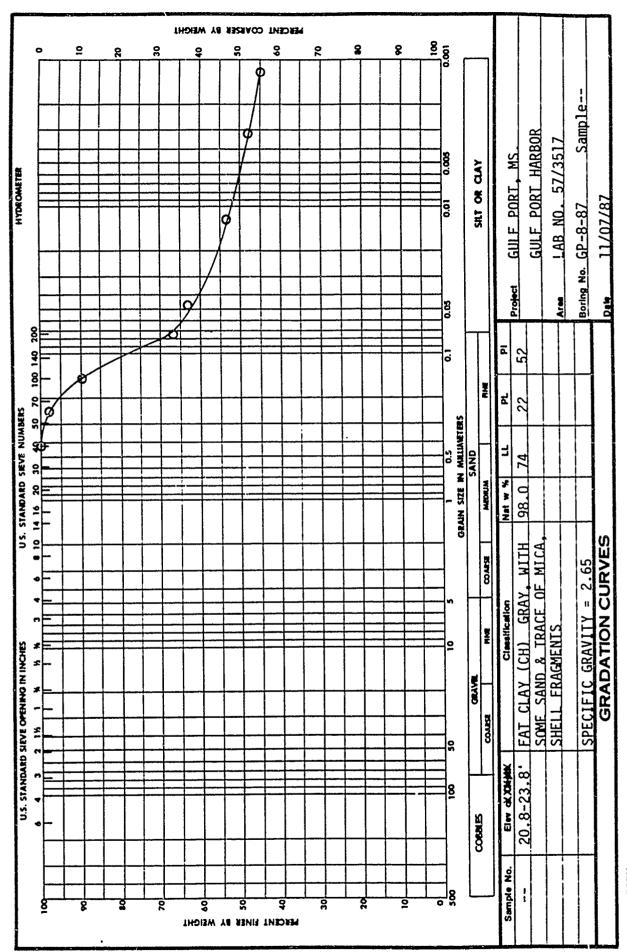


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W.O. No. 5327

Req. No. 42-87-F&M

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

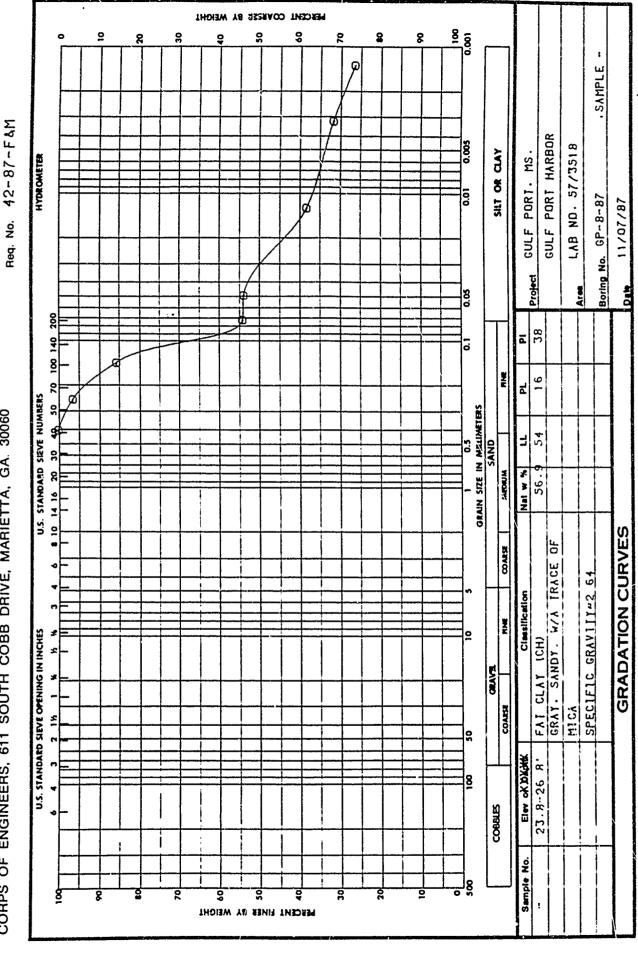


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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA 30060

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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

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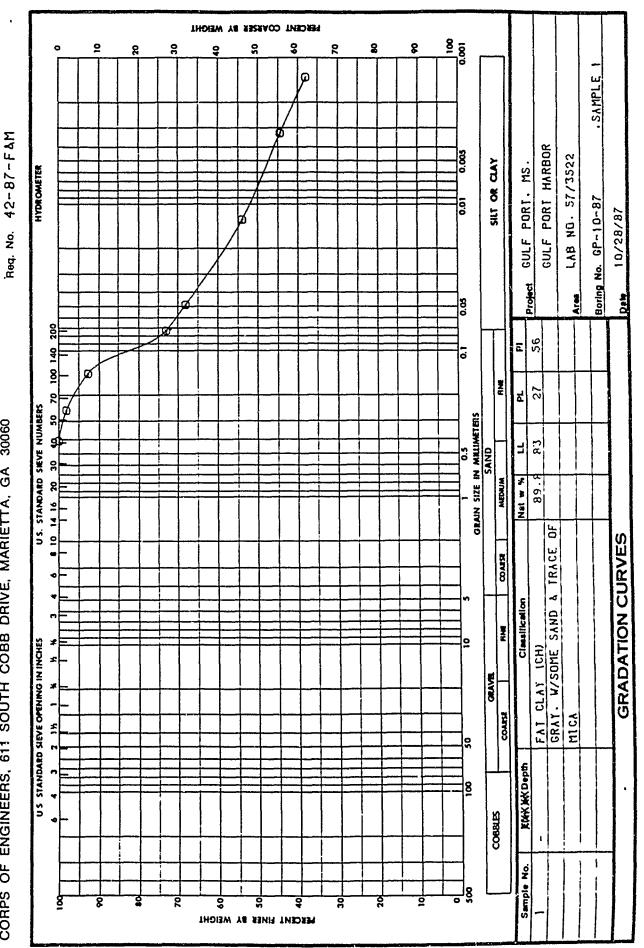
5327

PERCENT COARSER BY WEIGHT Š 0.0 0.0 2 ŝ 2 8 30 SAMPLE CULF PORT HARBOR LAB ND. 57/3521 SILT OR CLAY GULF PORT. MS. HYDROMETER Boring No. 0P-9-87 10/28/87 Project ΝP ٦ 100 7 40 50 70 겁 S. U.S. STANDARD SIEVE NUMBERS) 0.5 GRAIN SIZE IN MILLIMETERS SAND 8 10 14 16 20 30 Nat w % 26.6 MEDICAM GRADATION CURVES COARSE GRAY. WIRACE OF MICA POOR GRDED SAND (SP) GRAVEL SIZE SHELL 25 U.S. STANDARD SIEVE OFENING IN INCHES **GEAVE** COARSE 8 COBSIES Sample No. ğ 호 80 PERCENT FINER BY WEIGHT

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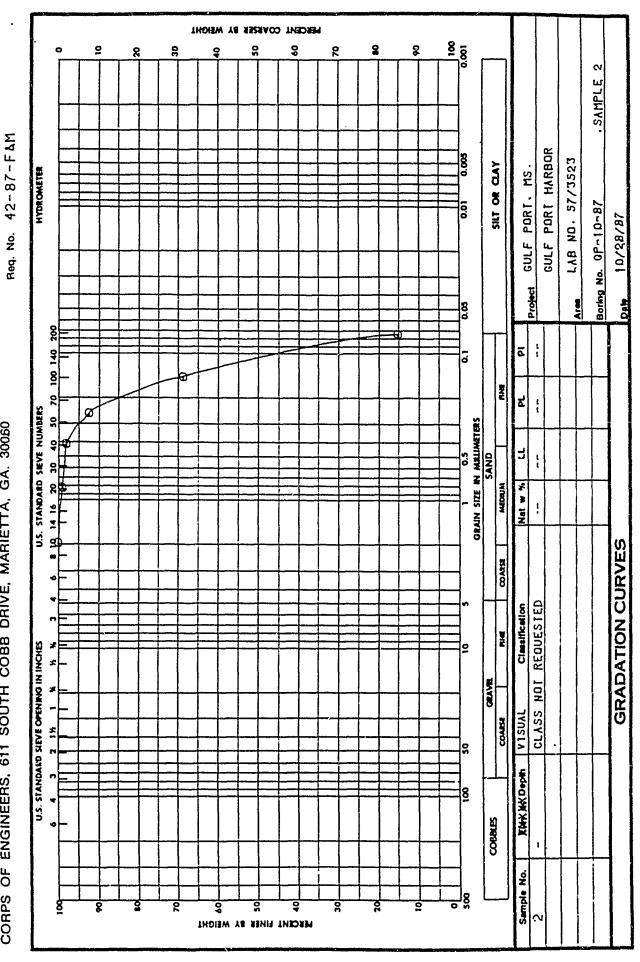
DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA 30060

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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30050



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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

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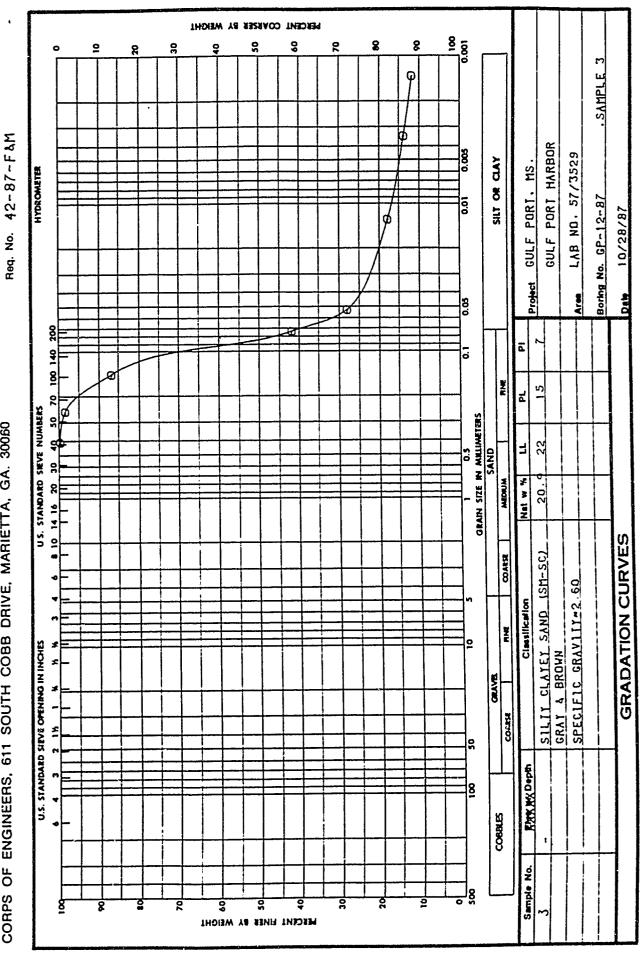
Req. No.

5327

PERCENT COARSER BY WEIGHT <u>8</u> <u>2</u> 2 SAMPLE GULF PORT HARBOR LAB NO. 57/3525 SILT OR CLAY GULF PORT. MS. HYDROMETER Boring No. GP-11-87 11/07/87 Project Dete 8 ā ! 8 교 U.S STANDARD SIEVE NUMBERS ORAIN SIZE IN MALIMETERS SAND Nat w % 8 10 14 16 GRADATION CURVES COARSE OF MICA SILIY SAND (SH)
BROWN. W/A IRACE O
WOOD CHIPS 2 M 9 US STANDARD SIEVE OPENING IN INCHES CRANE V1SUAL COARSE 2 12 20 EION OX DEPHK 36.9-39.9 8 COBBLES Sample No. .. Т 9 PERCENT FINER BY WEIGHT

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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

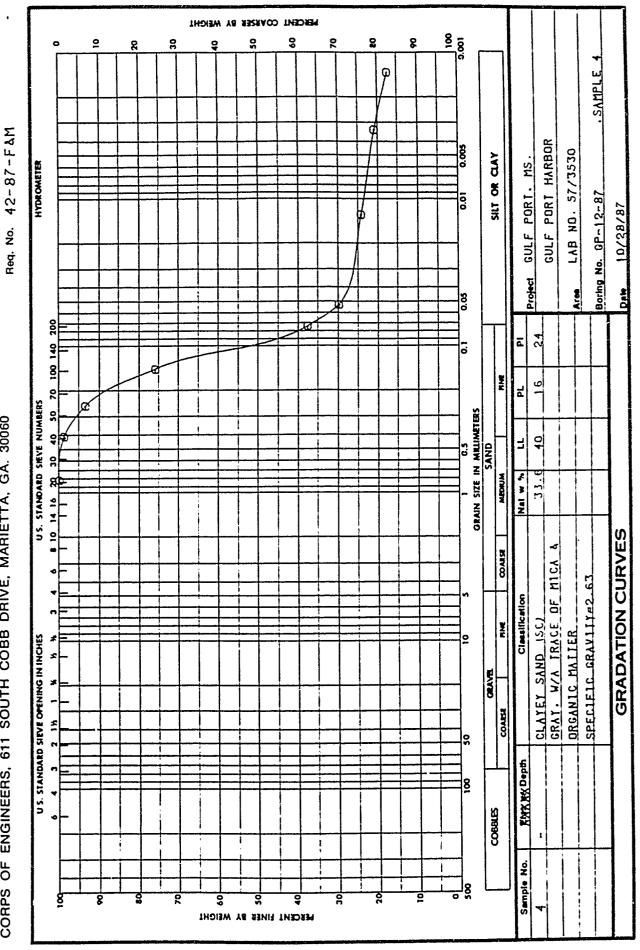


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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

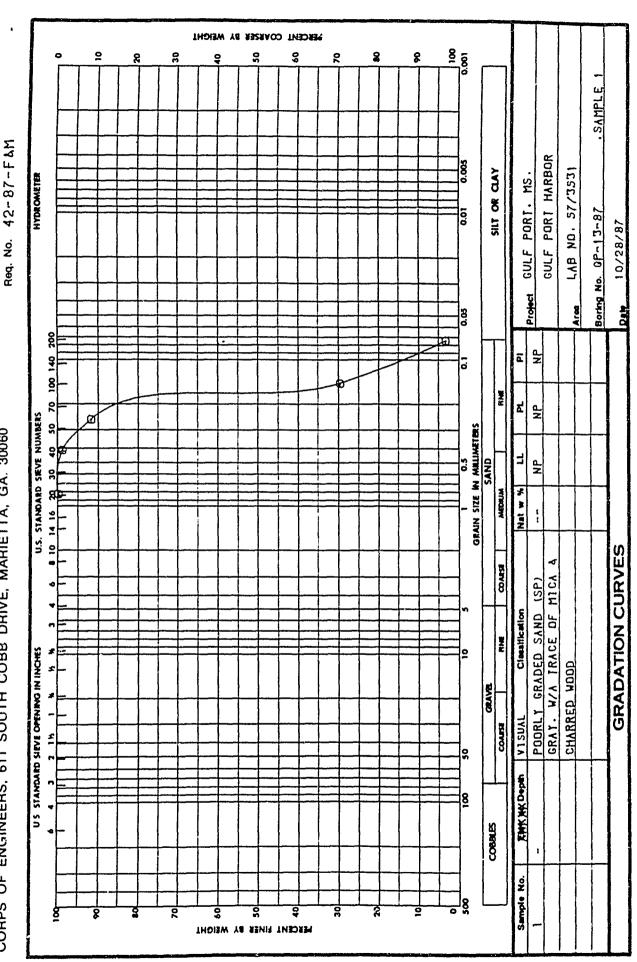
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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060



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PERCENT COARSER BY WEIGHT 2 8 0.00 0.00 0.00 20 9 3 8 SAMPLE Req. No. 42-87-FAM GULF PORT HARBOR HYDROMETER 8 LAB NO. 57/3533 SILT OR CLAY GULF PORT. MS. Boring No. GP-14-87 11/07/87 Project Area Date 100 140 ā & <u>-</u> 10 14 16 20 30 40 50 70 Ž US. STANDARD SIEVE NUMBERS చ ď CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060 GRAIN SIZE IN MILIMETERS
SAND 7 Š MEDEUM No. x % 24.8 LT. GRAY. W/A TRACE OF MICA POOR GRD SILIY SAND (SP.SM) GRADATION CURVES SANSE & GRAVEL SIZE SHELL U.S. STANDARD SIEVE OPENING IN INCHES N. GRAVE 2 1% VISUAL ŝ Elev of Athlet 33.3.36.3 8 COBBLES Sample No. 9 20 헍 PERCENT FINER BY WEIGHT

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W.O. No. 5327

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY

ENG : MAY 63 2087

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

Req. No. 42-87-FAM

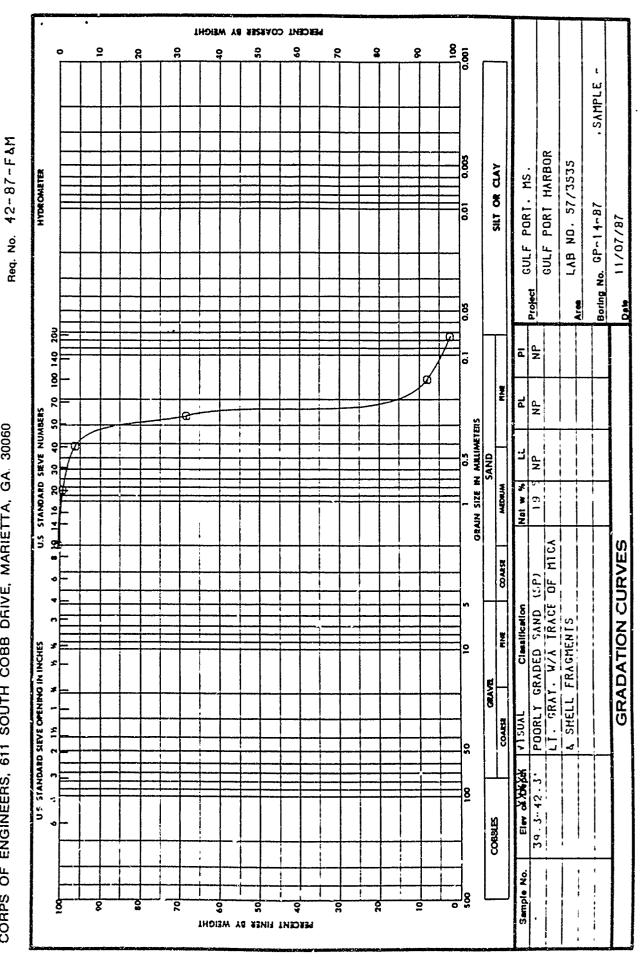
PERCENT COARSER BY WEIGHT 9 8 9 9 2 \$ 8 0 8 ŝ 8 SAMPLE CULF PORT HARBOR 0.005 LAB ND. 57/3534 SILT OR CLAY CULF PORT. MS. HYDROMETER Borting No. 0P-14-87 0.0 11/07/87 Project Date P. 2 100 140 Ž ద A. U.S. STANDARD SIEVE NUMBERS 10 14 16 70 30 40 50 7 GRAIN SIZE IN MILLIMETERS 1 SAND NP Net w % MICA GRADATION CURVES SWS POORLY GRADED SAMD (SP) A SHELL FRAGMENTS M. U.S STANDARD SIEVE OPENING IN INCHES GRAVES 415UAL COARS <u>-</u> Eler of XXXXX 36.5-39.3 8 COSMES Sample Ho. PERCENT FINER BY WEIGHT

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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

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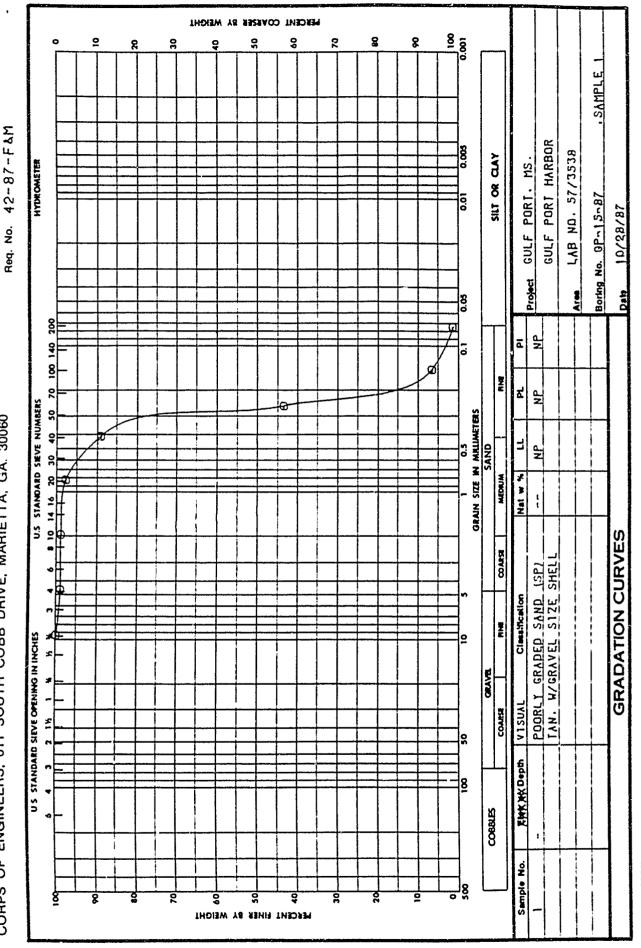
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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

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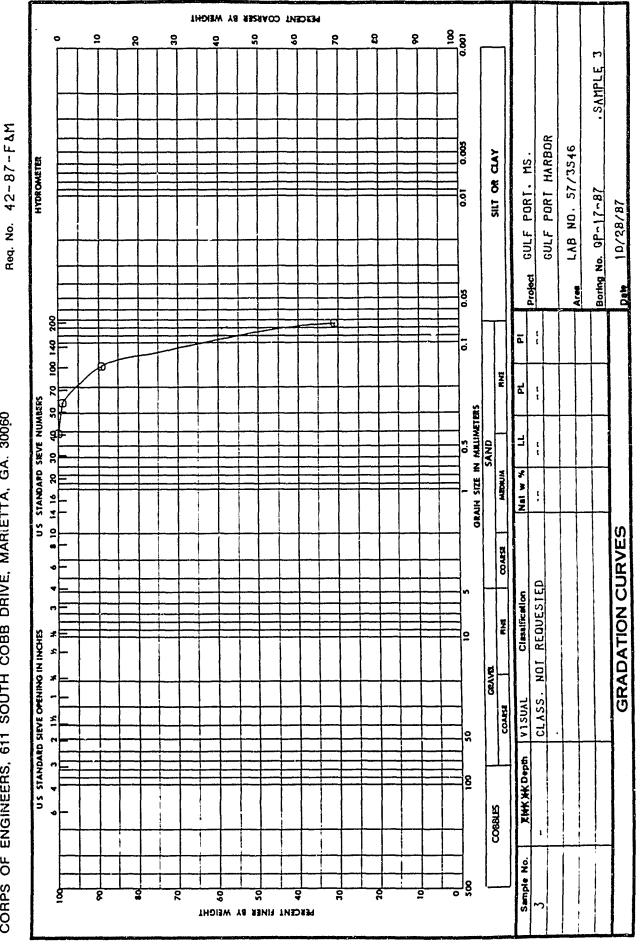
Req. No. 42-87-FAM

PERCENT COARSER BY WEIGHT ያ ŝ 2 8 20 2 30 SAMPLE 1 CULF PORT HARBOR 0.00 LAB ND. 57/3539 SILT OR CLAY CULF PORT. MS. HYDROMETER Boring No. GP-16-87 0.03 10/28/87 Project Det 0.05 9 70 100 140 ž ದ ď. US STANDARD SIEVE NUMBERS GRAIN SIZE IN MILLIMETERS 40 50 1 SAND Š Nat w % MEDRUM 8 ţ 10 14 16 LT. GRAY. W/A TRACE DF GRAVE SIZE SHELL 4 PIECES OF WOOD GRADATION CURVES COARSE POORLY GRADED SAND (SP) N.K 2 U.S. STANDARD SIEVE OPENING IN INCHES SAME. VISUAL COATS 2 1% S 天城长 XK Depth 8 COBBLES Sample No. ő 8 5 9 PERCENT FINER BY WEIGHT

ENG , MAY 63 2087

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

42-87-FAM

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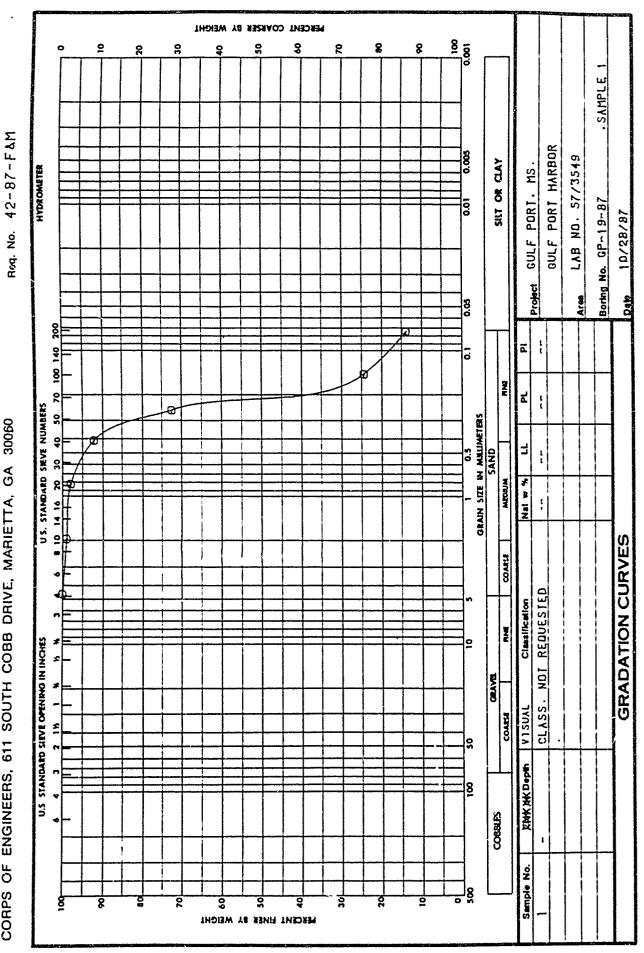
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W O. No.

PERCENT COARSER BY WEIGHT <u>0.0</u> 8 30 2 윉 SAMPLE CULF PORT HARBOR LAB ND. 57/3548 SILT OR CLAY GULF PORT, MS. HYDROMETER Boring No. GP-18-87 10/28/87 Project Area Date 8 를 함 <u>-</u> 3 8 7 S. U.S. STANDARD SIEVE NUMBERS GRAIN SIZE IN MILLIMETERS 9 SAND ž 8 10 14 16 20 30 1 1 1 1 1 1 1 MEDIUM Nat w % 1 POORLY GRADED SAND (SP) LT. GRAY. W/A TRACE OF GRAVEU GRADATION CURVES COARSE Ž 9 U.S STANDARD SIEVE OPENING IN INCHES SIZE SHELL GRAVE VISUAL COARSE 2 2 S XMXXKOepth 8 COGBLES Sample No. 2 9 PERCENT FINER BY WEIGHT

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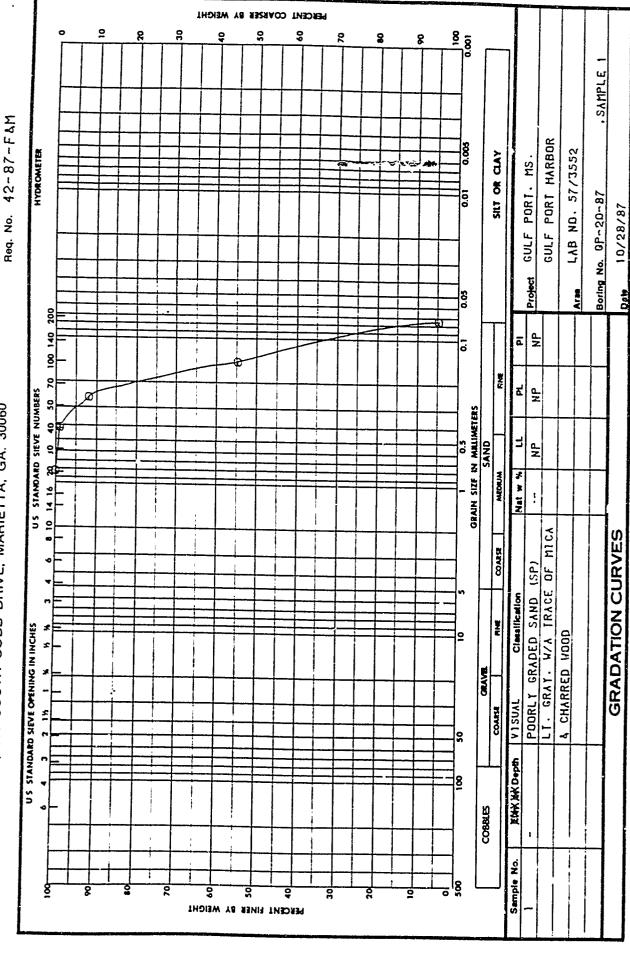
DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA 30060



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DEPARIMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

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ENG , MAY 63 2087

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

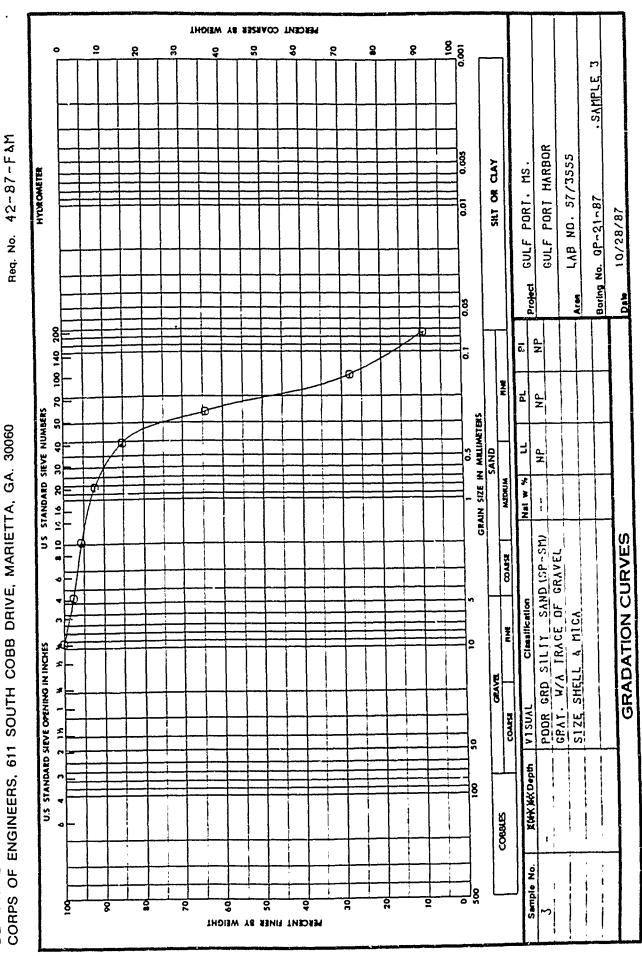
Req. No. 42-87-F&M

PERCENT COARSER BY WEIGHT 0.00 100 100 2 8 2 8 SAMPLE GULF PORT HARBOR 0.003 HYDROMETER LAB NO. 57/3554 SILT OR CLAY CULF PORT. MS. 0.01 Boring No. 0P-21-87 10/28/87 Project Pel 180 A P ā 2 Ъ N P US STANDARD SIEVE NUMBERS 20 GRAIN SIZE 'IN MALIMETERS SAND Ş 10 14 16 20 30 ٩ Nat w % MEDRUM ! GRADATION CURVES COARSE POORLY GRADED SAND (SP) GRAY. W/A TRACE OF SHELI Classification 3 U.S. STANDARD SIEVE OPENING IN INCHES GEAVE FRAGMENTS VISUAL 2 1% COARSE OŞ XMXXXXDepth 8 COBMES Semple Mo. 8 8 60 20 Š PERCENT FINER BY WEIGHT

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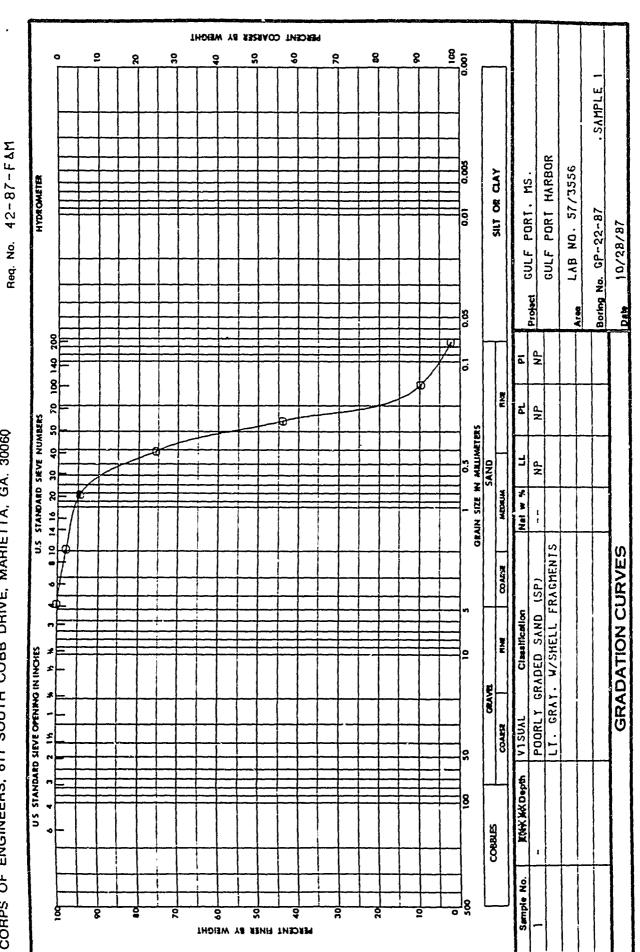
DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

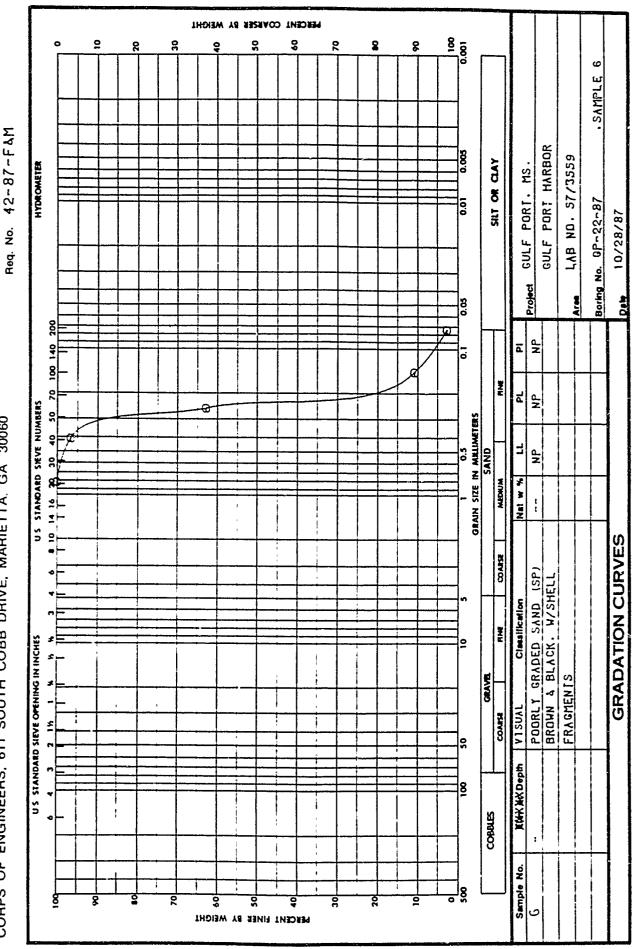


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DEPAHTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA 30060

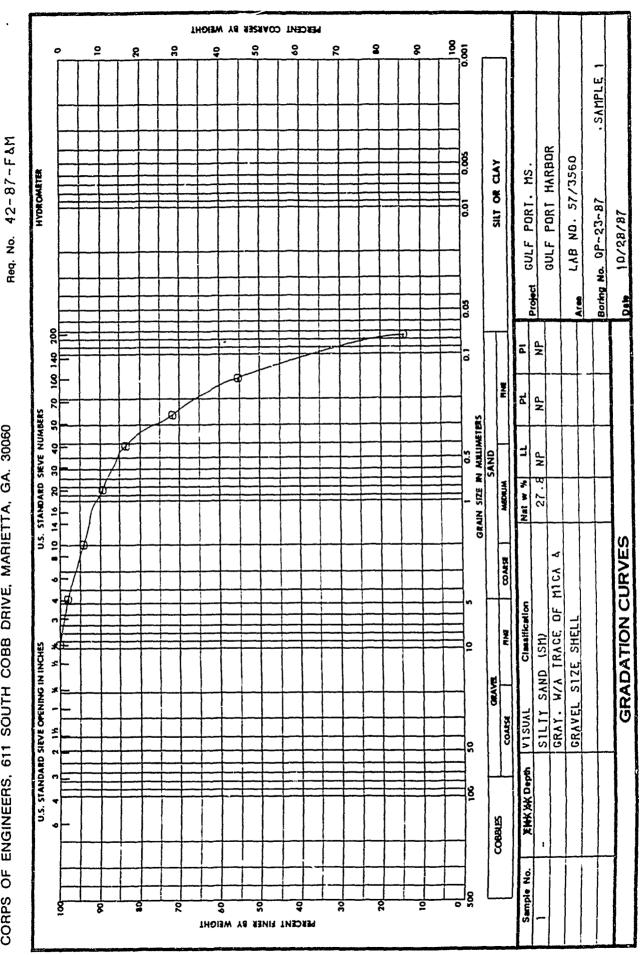
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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060



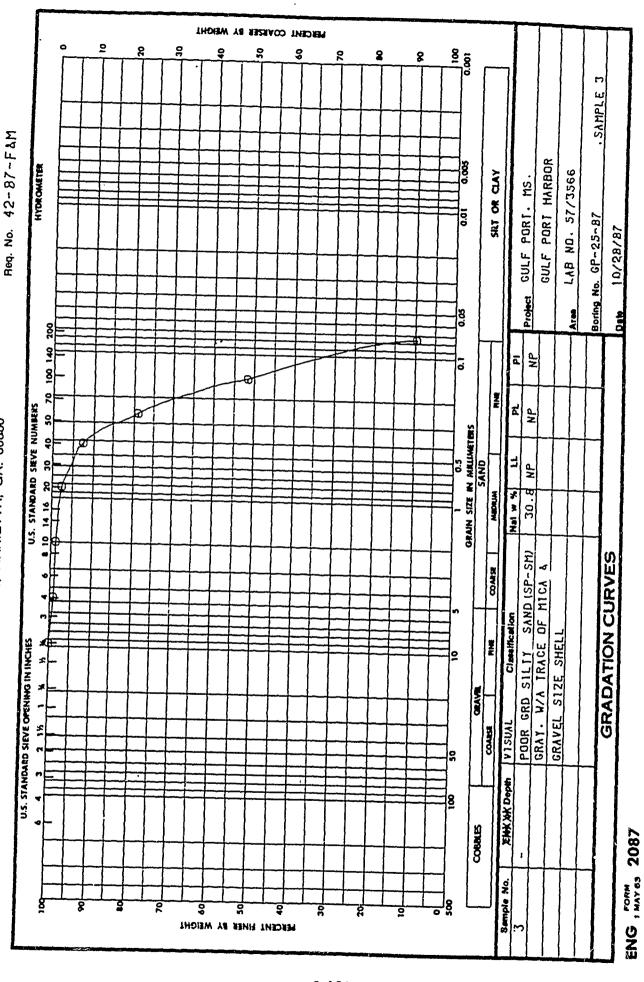
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PERCENT COARSER BY WEIGHT 2 30 90 0.00 0.00 0.00 0.00 2 S 8 SAMPLE 42-87-FAM GULF PORT HARBOR HYDROMETER o. 8 LAB ND. 57/3563 SILT OR CLAY GULF PORT, MS. 10.0 Doring No. GP-24-87 Req. No. 10/28/87 Project Area N P <u>a</u> 0. 8 2 U.S. STANDARD SIEVE NUMBERS ظ 20 ٩ CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060 ORAIM SIZE IN MILIMETERS 9 90 = SAND 14 16 30 31 PI MEDYUM Hat w % : GRADATION CURVES COARSE SHELL POORLY GRADED SAND (SP) GRAY. W/A TRACE OF U.S. STANDARD SIEVE OFFINING IN INCHES ¥ GEAVE FRACMENTS VISUAL COARSE 20 医骨长 这长 Depth COBBLES ENG , MAY 63 2087 Sample No. 5 쒸휞 60 50 30 2 PERCENT FINER BY WEIGHT

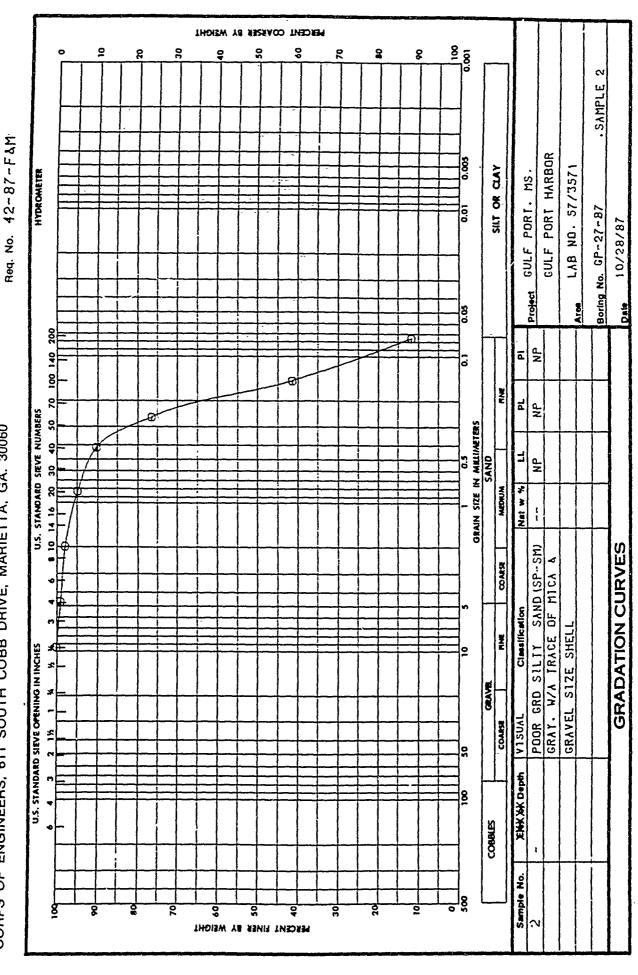
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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

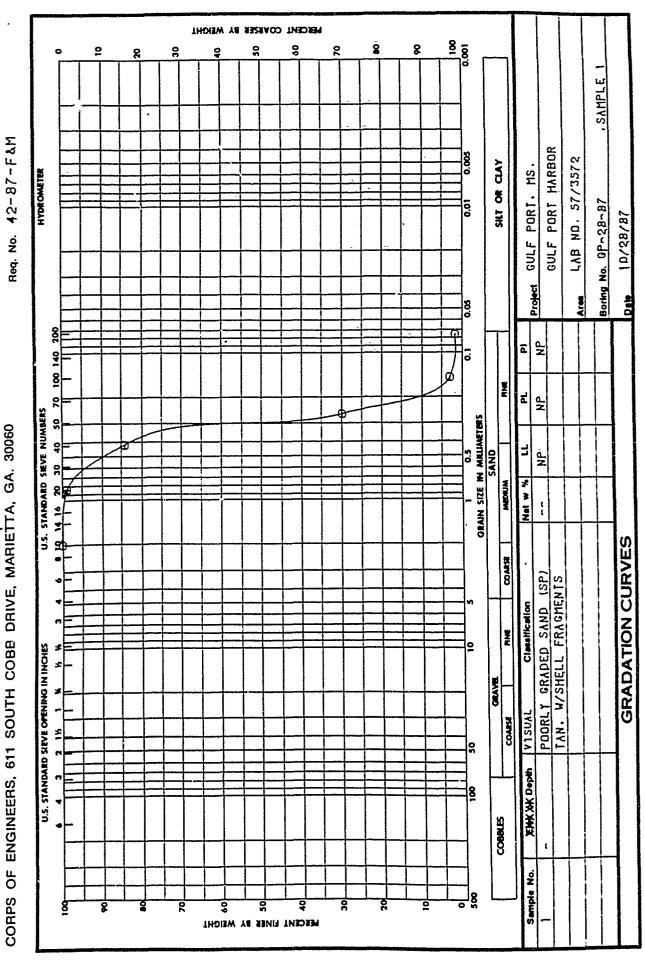


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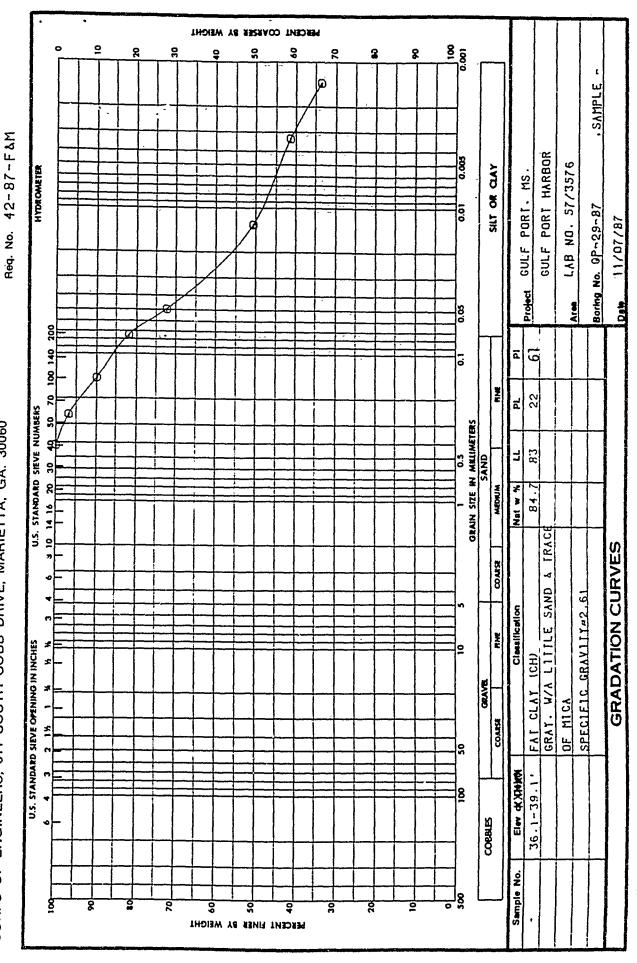
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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060



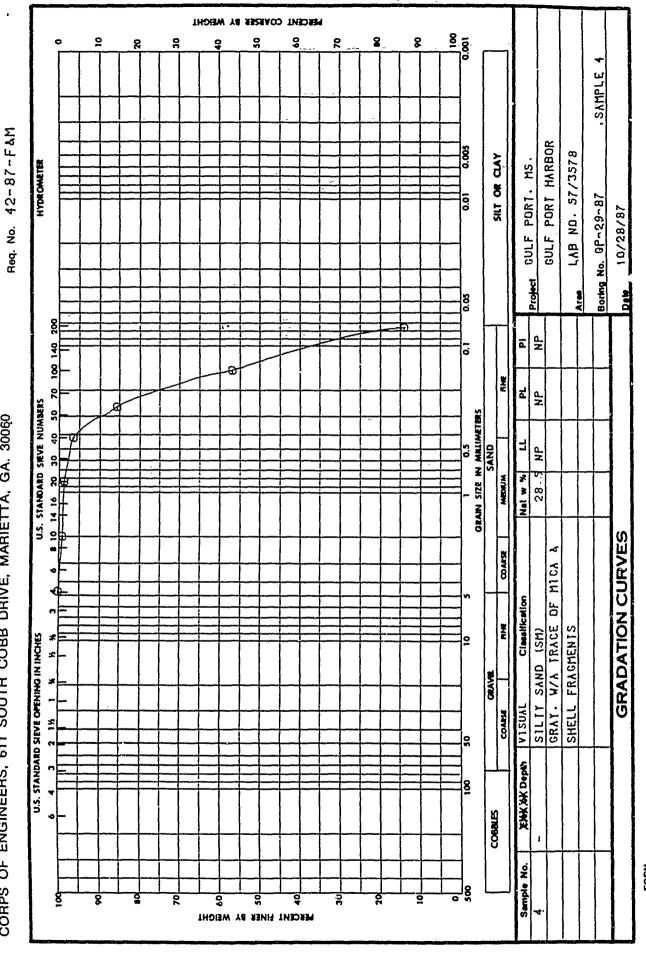
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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060



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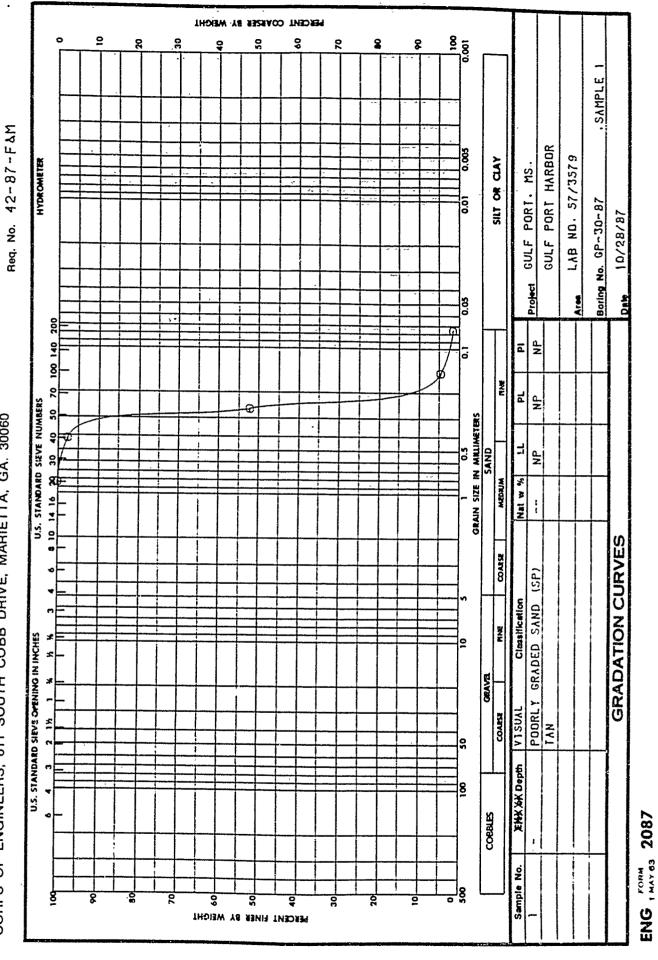
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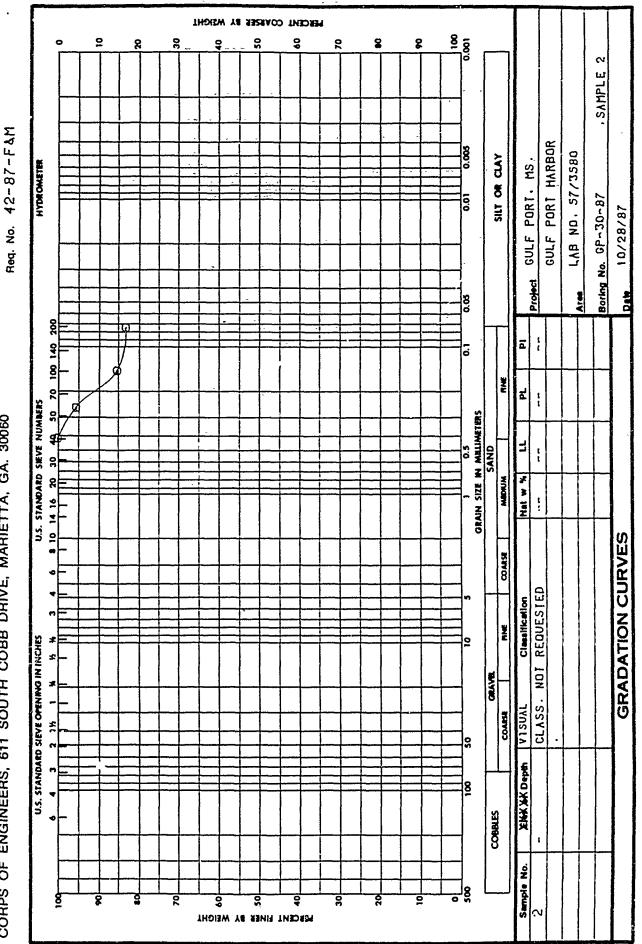
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DEPAHTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060



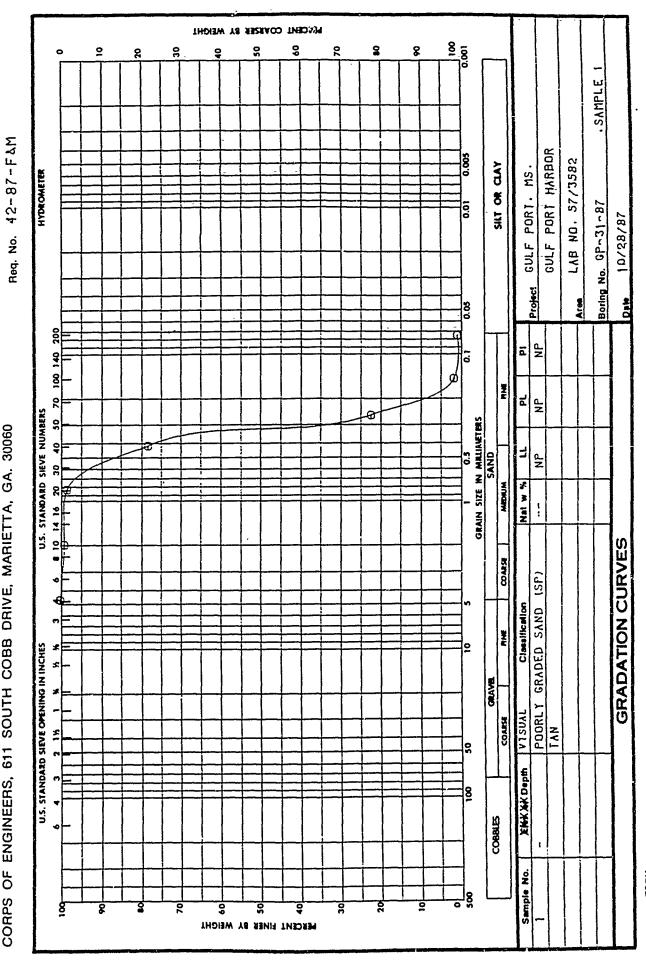
C-193

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060



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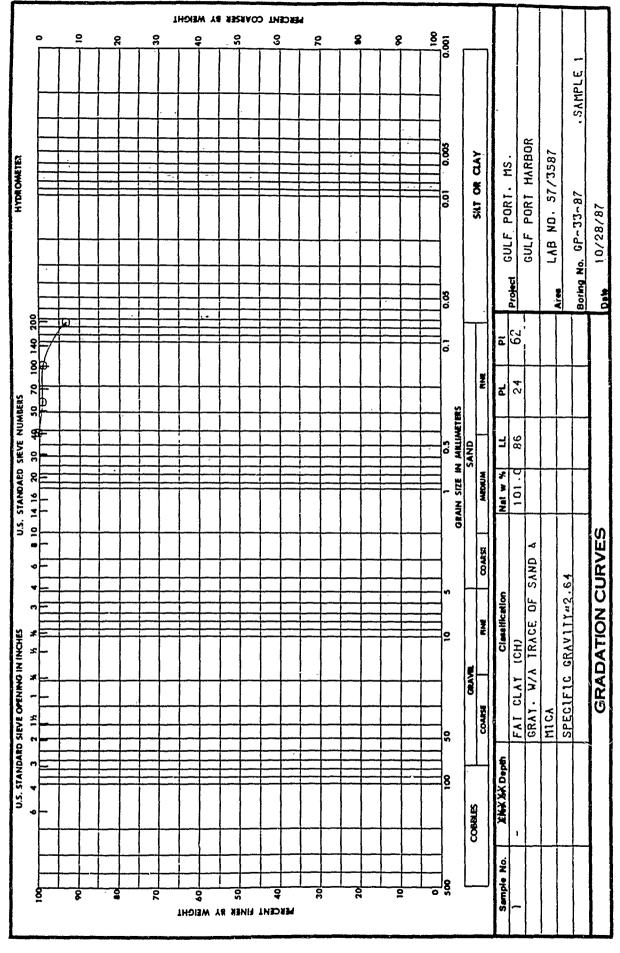
DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060



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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

W.O. No. 5327 Req. No. 42-87-F&M



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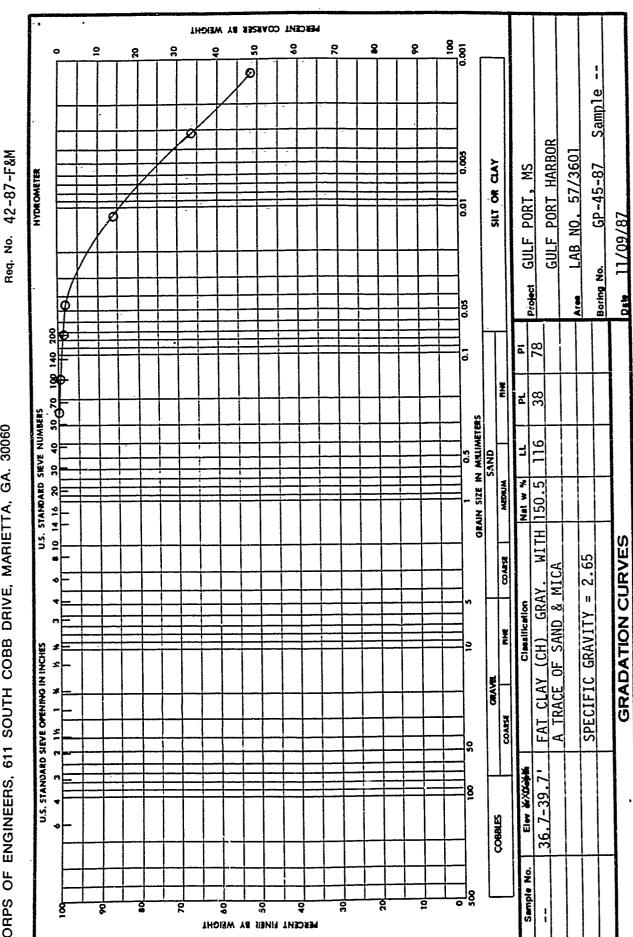
DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

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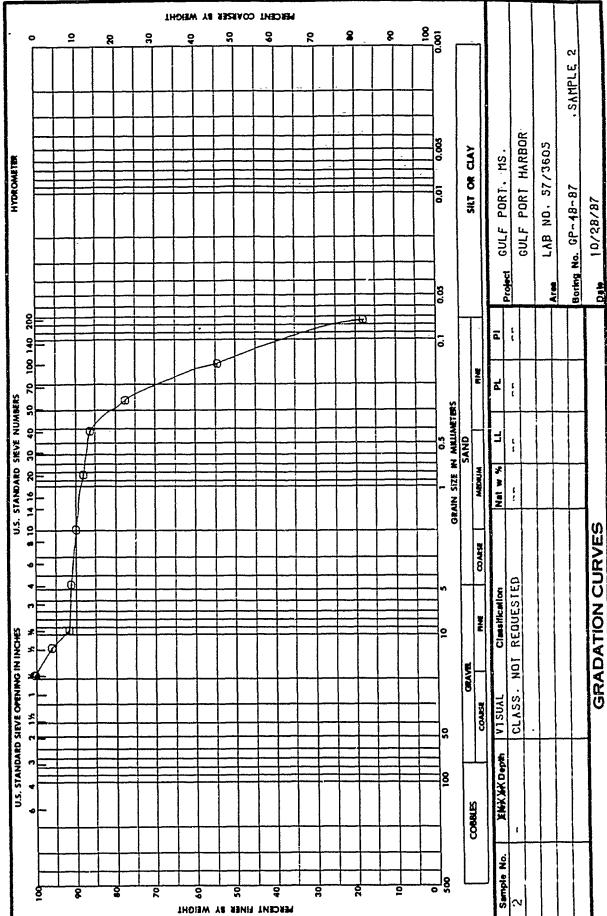


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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA 30060

Req. No. 42-87-F&M

W.O. No. 5327

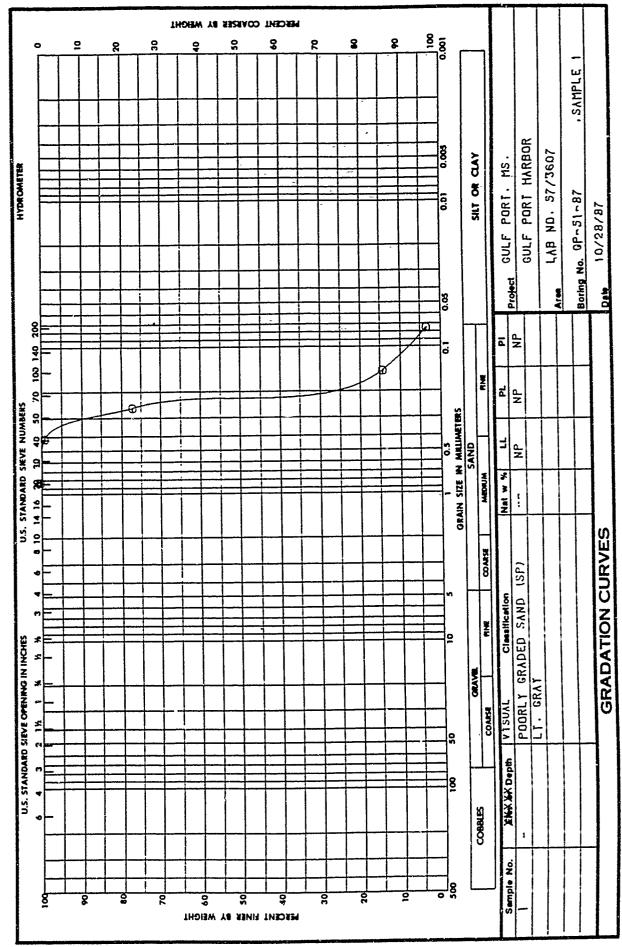


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C-198

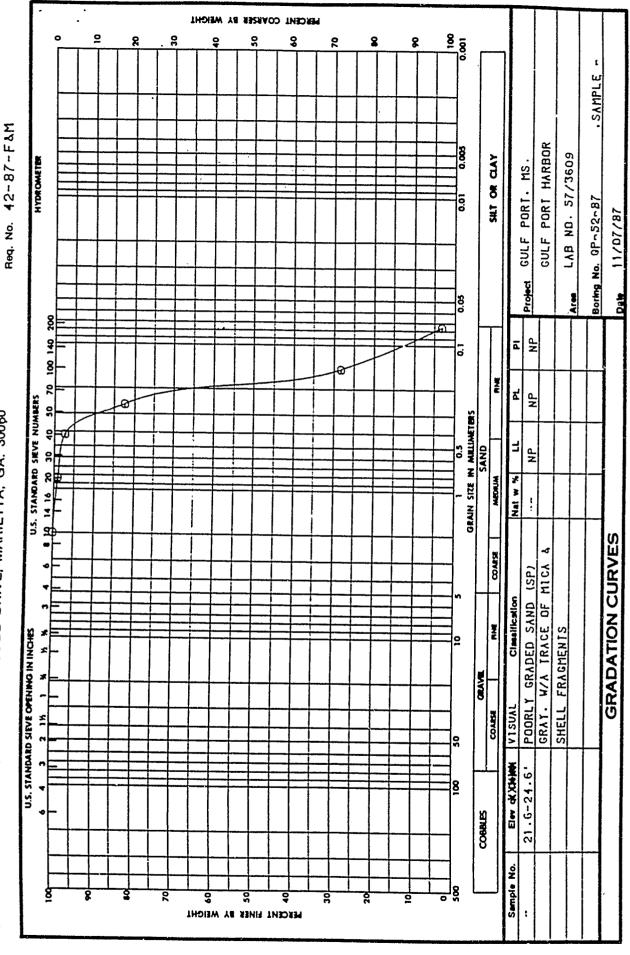
DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

Req. No. 42-87-FAM



ENG FORM 2087

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

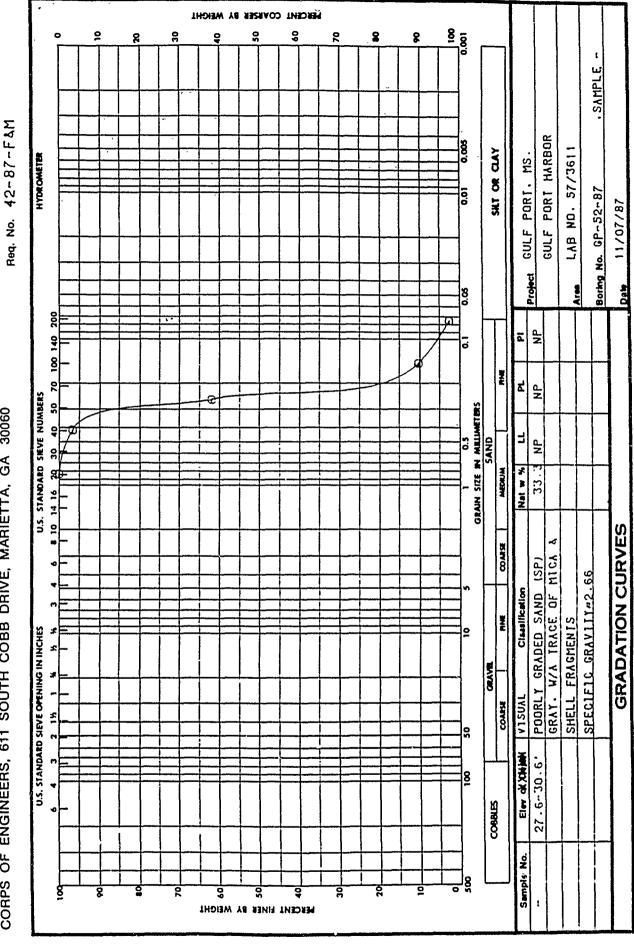


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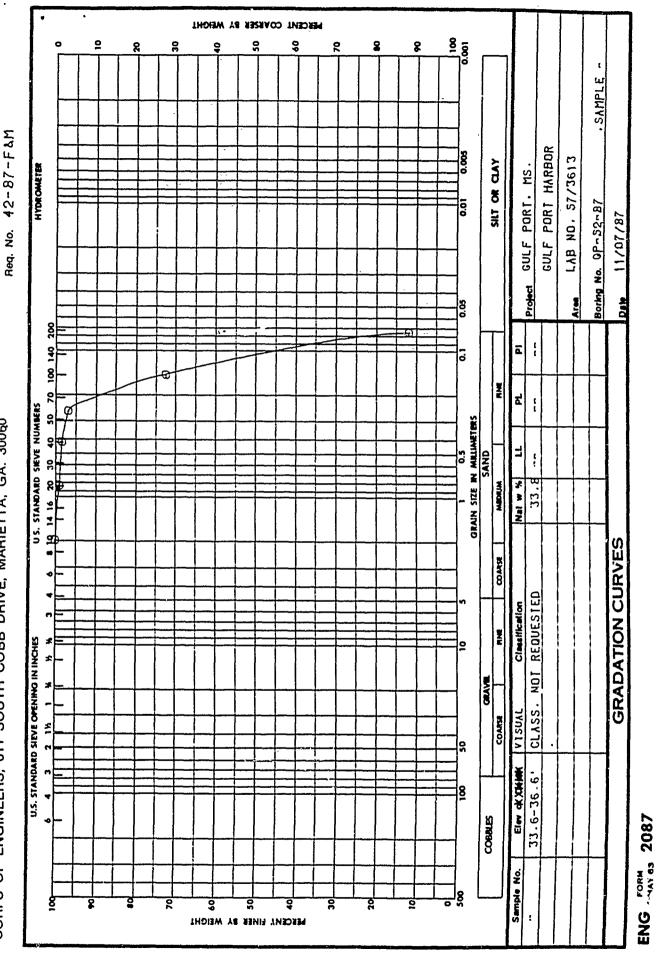
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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA 30060



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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

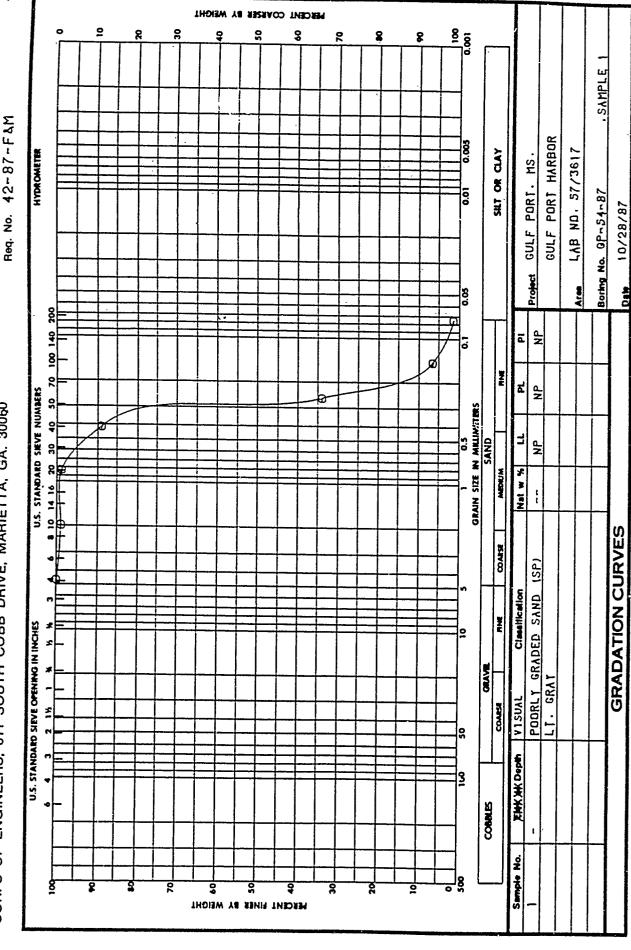


C-202

PERCENT COARSER BY WEIGHT 2 8 20 <u>8</u> 8 2 8 8 SAMPLE Req. No. 42-87-F&M ф CULF PORT HARBOR HYDROMETER LAB NO. 57/3615 SILT OR CLAY GULF PORT, MS. 0.0 Boring No. 6P-53-87 10/28/87 Project 100 140 ā 0.1 ž U.S. STANDARD SIEVE NUMBERS ᆲ CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060 GRAIN SIZE IN MILIMETERS
SAND ב MEDIUM Nat w % 27.4 8 10 14 16 GRADATION CURVES COARSE Classification U.S. STANDARD SIEVE OPENING IN INCHES Ž (SH) SILIY SAND GRAY GRAVE COARSE XXXXX Depth COBBLES ENG PAY 63 2087 Sample No. 2 8 PERCENT PINER BY WEIGHT "

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060



C-204

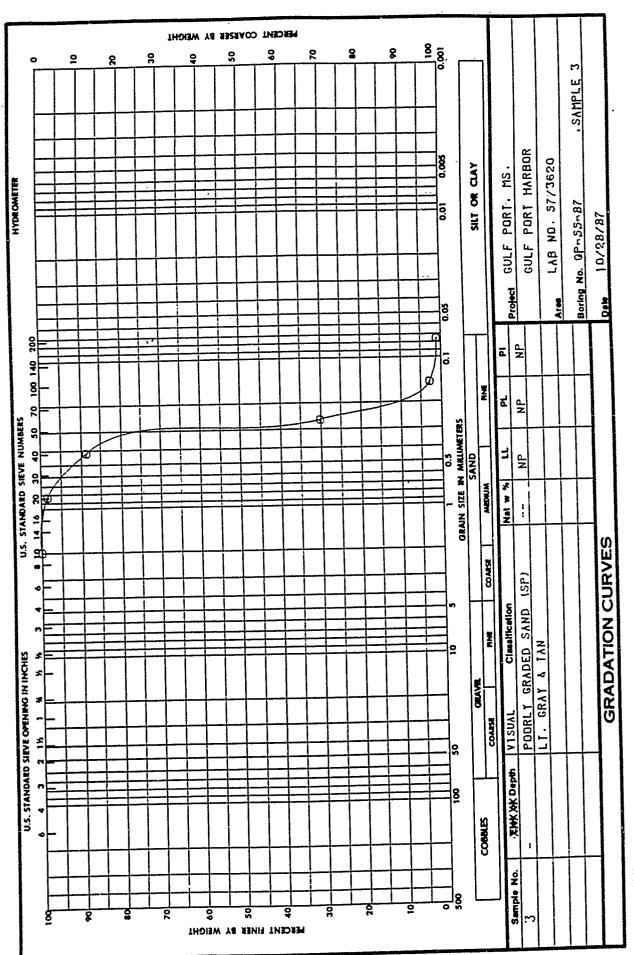
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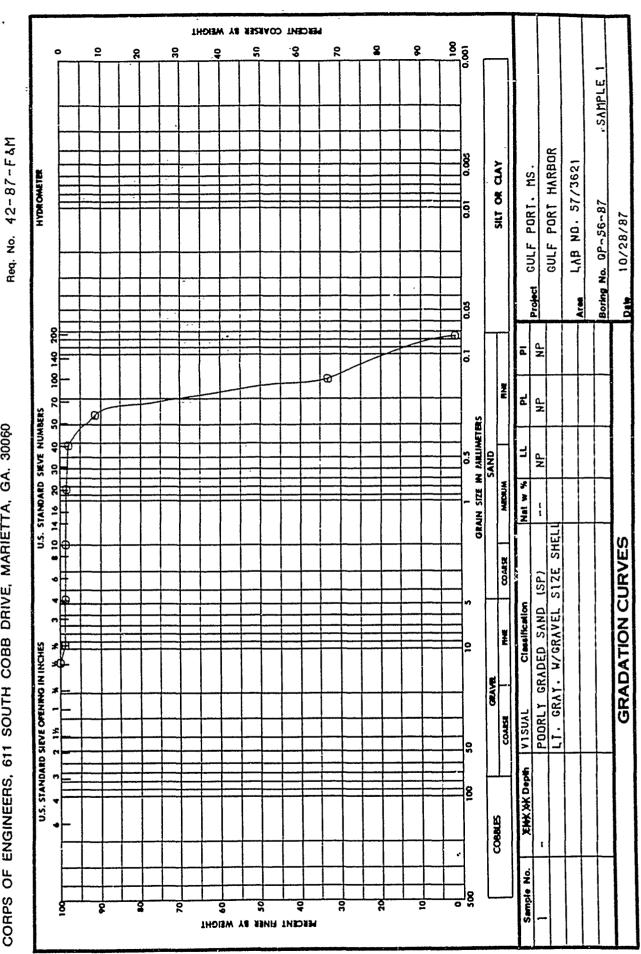
Req. No. 42-87-FAM

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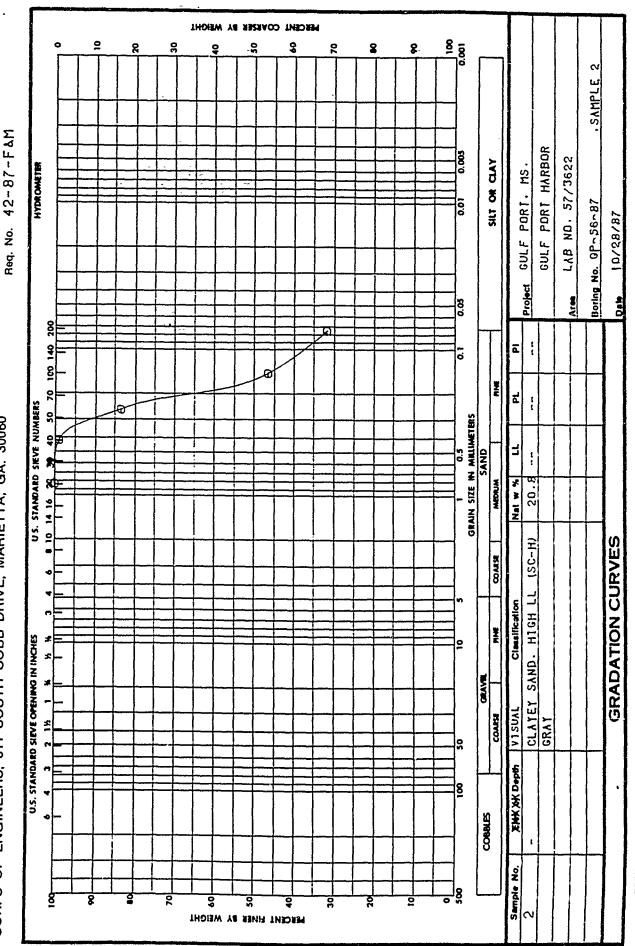
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C-206

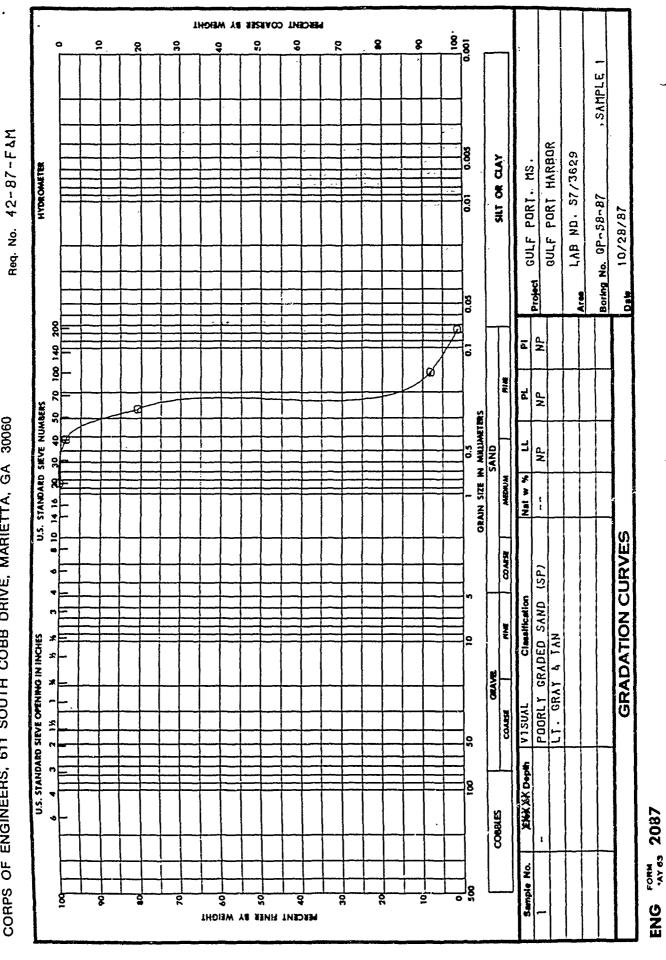
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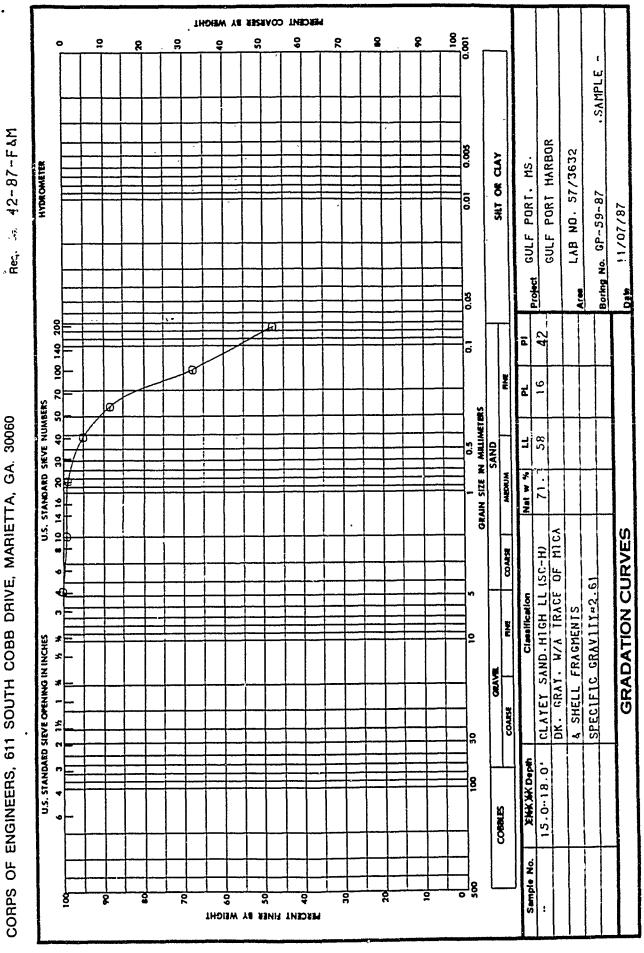


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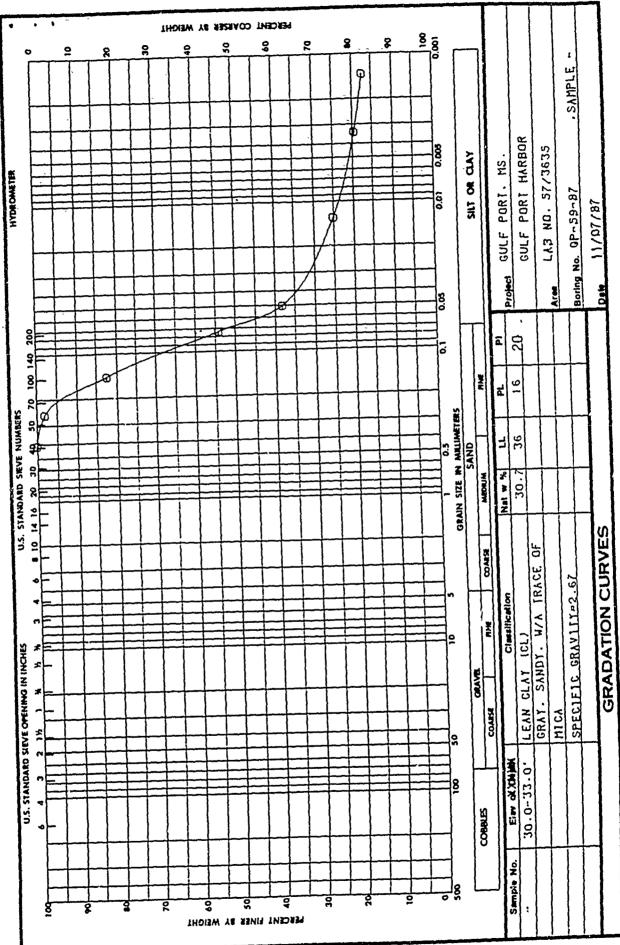
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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

Req. No. 42-87-FAM

5327

W.O. No.



T38M 2087

ENG

<u>\$</u> § 8 . SAMPLE Req. No. 42-87-F4M OULF PORT HARBOR HYDROMETER LAB ND. 57/3636 SILT OR CLAY GULF PORT. MS. Boring No. 0P-59-87 11/07/87 8 100 140 į ā U.S. STANDARD SIEVE NUMBERS ۳ DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060 GRAIN SIZE IN MILLIMETERS SAND 1 8 10 14 16 20 Hal w % 22.6 GRADATION CURVES SOARSE REDUESTED ¥ E U.S. STANDARD SIEVE OPENING IN INCHES NOT GRAME CLASS. 33.0-36.0 東京なる 19日 COURLES Sample No. PERCENT FINER BY WEIGHT

HENCENT COARSER BY WEIGHT

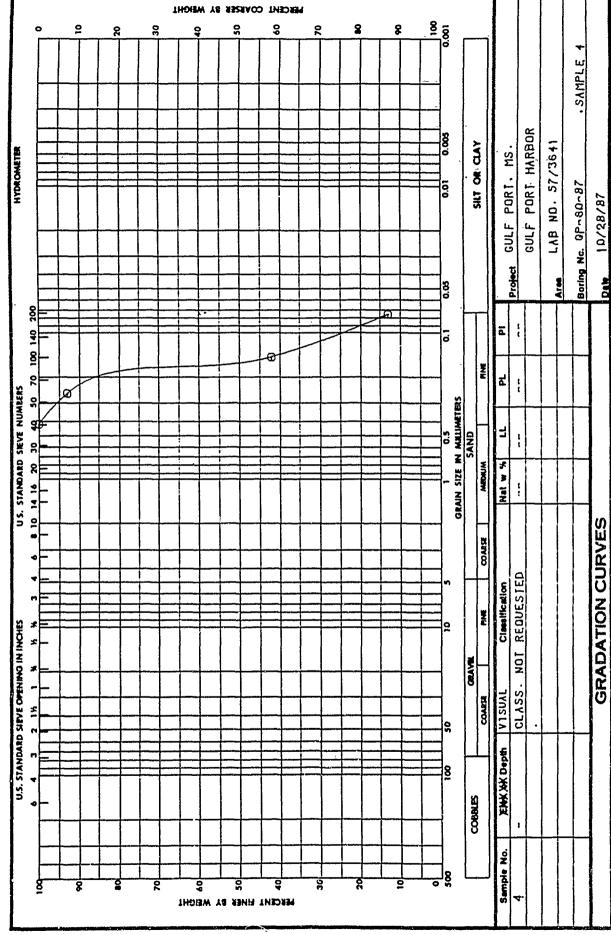
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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

Req. No. 42-87-FAM

W.O. No. 5327



ENG, FORM, 2087

C-212

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA 30060

Req. No. 42-87-F&M

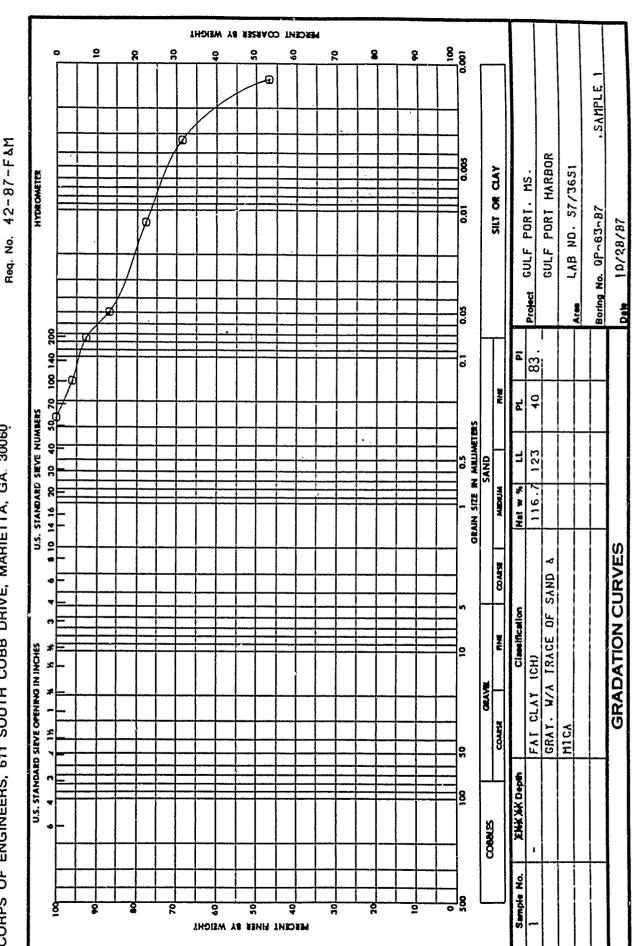
W.O. No. 5327

PERCENT COARSER BY WEIGHT <u>8</u>8 2 2 SAMPLE OULF PORT HARBOR LAB ND. 57/3648 SILT OR CLAY HYDROMETER GULF PORT. MS. Boring No. GP-62-87 10/28/87 Project E E ≖ 100 140 <u>.</u> ž Hg 14 16 20 30 40 50 70 굽 U.S. STANDARD SÆVE NUMBERS GRAIN SIZE IN MILLIMETERS
SAND 7 MEDMUM Nat w % ţ GRADATION CURVES COARSE REQUESTED Cisesification ž U.S. STANDARD SIEVE OPENING IN INCHES NOT GRAVE CLASS. 1120217 COARSE XKXXX Depth 8 COBBLES Sample No. 8 PERCENT FINER BY WEIGHT

ENG FORM 2087

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30060

W.O. No. 5327



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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, 6A. 31

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66-76-F &

WORK ORDER NO. 9784 Reg. No. 66-76-1

PERCENT COMMER BY WEIGHT 8 Sample Lab. No. 57/7588 VC-SIII-2-76, 9000 Gulfport Harbor MOBILE DISTRICE HYDMOMETER SALT OR CLAY 18 May 1976 Spoil Area Boring No. E. į 900 8 ۳ ಕ 100 140 1 ĸ **8** U.S. STAIDARD SIEVE NUMBERS 8 10 14 16 20 30 40 50 ì GRAIN SIZE IN MILLIMETERS 2 246 Net w X 10 m 1 GRADATION CURVES slightly plastic, w/a trace of shell fragments SSAMOO Gray silty sand (SM) 1 ž 2 MORES CRAKE U.S. STANDAND SIEVE, OPENING IN COMMEN Ţ ŧ 8 BLAK YOK Dayes 0.0-2.0 8 COBBLES Semple Ro. 8 Ŕ ह Ŕ 8 PERCENT FINER BY WEICHT

ENG , "AV", 2087

DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABOR:TORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, 6A. 3006

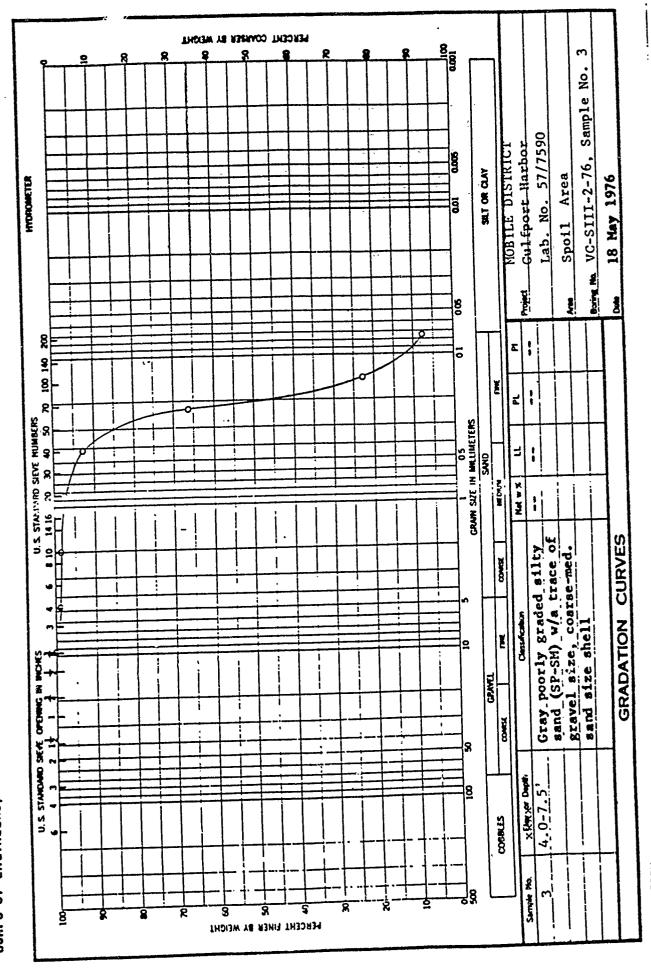
PERCENT COARSER BY WEIGHT 8 VC-SIII-2-76, Sample No. 9 Lab. No. 57/7589 MOBILE DISTRICT Gulfport Harbor HYDROMETER SET OR CLAY Spoil Area 18 May 1976 ā Boring Ha Propert į 98 51 0 8 *** ž Τ į U. S. STAT TAND SIEVE NUMBERS
8 10 14 16 20 30 40 50 GRAIN SIZE IN MALIMETERS 1 **68** = SKO MAG M No to N 7.1 _ } . Gray_fat_clay (CH)_w/some__ GRADATION CURVES Ì S 200 Ì Ĕ OPENING IN PICHES i i GRAFE 1 sand, S U.S. STANDAND SIEVE XMAXM Depth 2.0-4-0. 8 CORRECT 2... Semple No. ိန Ŕ ğ Ŕ 8 Ŕ 3 PERCENT FINER BY WEIGHT

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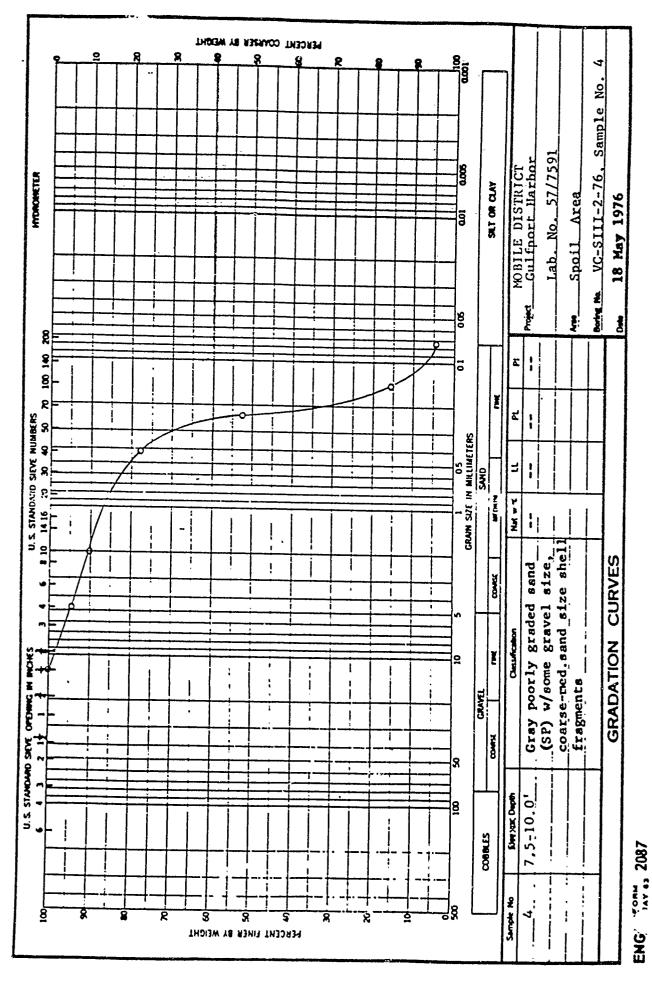
SOUTH ATLANTIC DIVISION LABORA: ORY SOUTH COBB DRIVE, MARIETTA, GA. 30061 DE. TIMENT OF THE ARMY, CORPS OF ENGINEERS, 611

9784



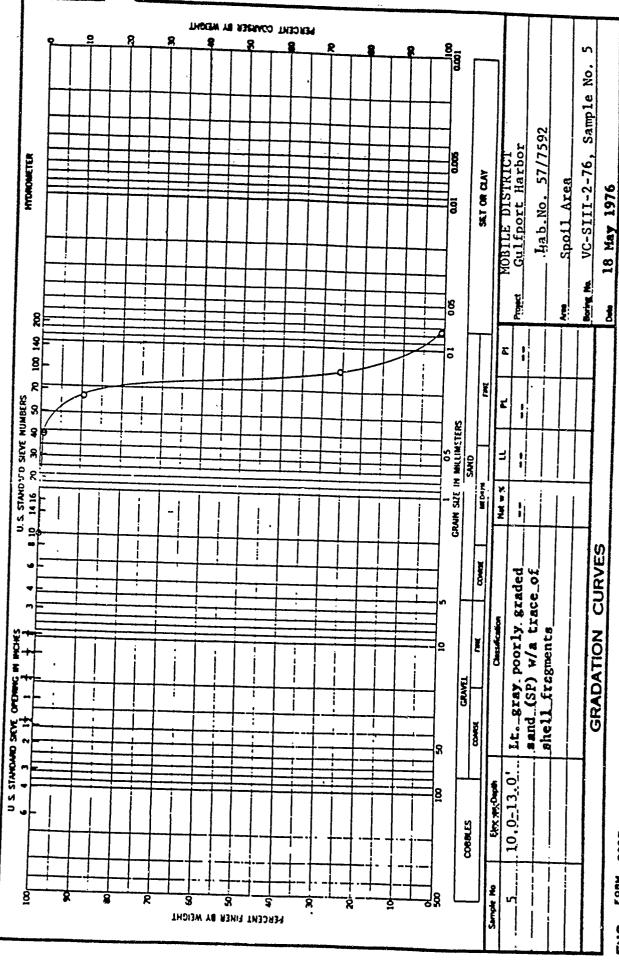
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DEPARTMENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF EMGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 300



C-218

DEPÀ IZENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30061



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DEPARTMENT OF THE ARDY, SOUTH ATLANTIC DIVISION LABORATORY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30061

PERCENT COARSER BY WEIGHT φ Sample No. Lab. No. 57/7593 VC-SIII-2-76, Gulfport Harbor MOBJUE DISTRICT HYDROBAETER SET OR CLAY 18 May 1976 Spoil Area Borng No. 8 ۳ 100 X 2 ೭ í CRAIN SLT IN MILLIMETERS i _ 3 Hat with i : GRADATION CURVES ; į Gray poorly graded sand 8 ; 2 U.S. STANDAND SIDY, OPDING IN INCHES ! CRAKE (SP) COMMEN 8 13.0-15.0 Elex yor Depth 8 COBBLES 9 --i ! ! Sample No Ŕ Ŕ 8 8 8 PERCENT FINER BY WEIGHT

C-220

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DEP TEENT OF THE ARMY, SOUTH ATLANTIC DIVISION LABORA, CAY CORPS OF ENGINEERS, 611 SOUTH COBB DRIVE, MARIETTA, GA. 30061

PERCENT COMMER BY WEIGHT Sample No. Lab. No. 57/7594 VC-SIII-2-76, MOBILE DISTRICT Gulfport Harbor HYDMOMETER SET OR CLAY 18 May 1976 Spoil Area ã Baring No. 98 į 8 001 **Z**, Ĕ **8** : చ i U. S. STAND.VIII SIEVE MUNBERS SAND ; š Ì ī 2 HA W K CRAM SL/F 1, ! ı Lt. gray poorly graded sand (SP) w/c trace of shell GRADATION CURVES Market Cleasefication ¥ GPDING IN INCHES 2 fragments GRAVEL I U.S. STANDAND SIEVE i COMPLE .15.0-18.3. liek to Depth 8 CORBLES Sample No. 8 8 8 ŝ PERCENT FINER BY WEICHT

ENG , LAY 43 2087

PETROGRAPHIC REPORT GULF PORT HARBOR, BORING GP-14-87, E. 38.3 FT. U.S. ARMY ENGINEER DISTRICT, MOBILE

INTRODUCTION

1. The natural sand from Boring GP-14-87, E.38.3 ft., Gulf Port Harbor is a shelly, gray silica sand. The gray color is mainly a function of the shelly debris prominant in the larger sieve size fractions and also due to some clay in the sample. The constitutes comprising the natural sand are listed in TABLE 1 (SAD FORM 3195). The percentage of each constitutent appears under the individual sieve size fractions in the columns to the right. The sample weighted averages appear in the center column. A description of each constitutent group comprising the sand appears below.

SAND COMPOSITION

Shell and Shelly Debris

2. Shell and shelly debris make up only two percent of the total sample. These are typically gray in color with only a few white or tan particles. The larger sizes, that is the No. 10-40 sieve sizes, contain relatively high percentages of these constituents. However, these fractions together only make up 7% of the sample, hence, the 2% weighted average. The shelly debris begins to decrease with decreasing sieve size but suprisingly the pan fraction (minus No. 200 size) contains about 10% of fragmental debris.

Skeletal Debris

3. Fragmented hard-parts or 'exoskeletal' constituents make up 4% of the natural sand. Examples of these type constituents include coral (?) fragments, fragmented sand dollars and other marine life. Most all of these have a dull tan color. Also included in this group are clear calcareous spicules (needle-like rods) which are found in the small (No.100 and below) sieve sizes.

Quartz

4. Fresh, hard, clear and translucent quartz particles make up the bulk of the sand constituents. These particles are 90% of the total sample. Particle shape is predominantly subangular in the larger sieve sizes, however, angular shapes are more typical in the smaller sieve size fractions. The bulk of the group are clear particles. A few well rounded frosted grains are present also.

All Others

- 5. Soft, gray clay lumps, heavy minerals, and mica make up the remaining 4% of the sand sample. The clay particles are particularly abundant in the No. 200 and pan fraction. They are 3% of the sand. The clay apparently did disaggregate when the sample was soaked and washed over the No.200 sieve during sample preparation.
- 6. A suite of miscellaneous heavy minerals (minerals with specific gravities greater than 2.65) are only 1% of the sample. These type particles are only

significant in the No.200 and pan fractions. Traces (less than 1%) of muscovite mica was found in the minus No. 40 sieve size fractions.

Attached TABLE 1 (SAD Form 3195)

RAY WILLINGHAM Geologist

	TAI	BLE 1													
U. S. ARMY ENGINEER DIVISION LABORATORY, SOUTH ATLANTIC CORPS OF ENGINEERS						DISTRICT									
						Mobile									
MARIETTA GEORGIA				PROJECT Gulf Port Harbor											
AGGREGATE COMPOSITION AND CONDITION REPORT					CONTRACT NO.										
SOURCE	LAB. NO.	DATE REPORTED													
GP-14-87 DATE RECEIVED	57/3534	}		17 November 1987											
31 July 1987	REQ. NO. 42-87-F&M							WORK ORDER NO. 5327							
DESCRIPTION:															
Natural Sand		Weighted Average	SIEVE SIZE (% Retained)												
Elevation 38.3 feet		(Percent)	#10	#20	#40	#60	#100	#200	Pan						
	Sample Gradation		1_	2	5	37	49	3_	3						
Shells & Shell Fragments		2	18	18	9	2	Tr	4	10						
Skeletal Debris		4	82	75	11	1	1	3	15						
Quartz		90		7	78	96	98	74	20						
Clay Lumps (Tr. Org.)		3		-	2	1	Tr	15	50						
Heavy Minerals		1	_	-	-	Tr	1	4	5						
Mica		Tr	_	_	Tr	Tr	Tr	Tr	Tr						
CONDITION:									··-						
Percent Flat and Elongated											. 1				
	··· -														
							<u> </u>								
										1	j				
REMARKS: -Petrographic analysis based on examination of 300 particles whenever possible.															
-The percentages shown for the No. 200 and pan fraction are estimates based on microscopic examination.															
-The sand sample was washed prior to analysis.															
					1										
							-								
											- 1				

REPORTED BY:	☐ PHONE	□ WIRE	TESTED BY RW	CHECKED BY WLT	
DATE			SAMPLED BY		*

SAD FORM 3195 1 Dec 81 CESAD-EN-FL SAD LAB. NO. 57/3538

PETROGRAPHIC REPORT GULF PORT HARBOR, JAR SAMPLE NO. 1, BORING GP-15-87 U.S. ARMY ENGINEER DISTRICT, MOBILE

INTRODUCTION

1. The natural sand in jar sample No. 1, Boring GP-15-87, Gulf Port Harbor is a whitish gray, shelly, silica sand. Shell and exoskeletal debris make up 100% of the Nos. 10 (2.0mm) and 20 (0.84mm) sieve sizes, however, these constituents make up less than 10% of the total sample. Quartz particles, on the other hand, are found in all sieve sizes and make up the bulk of the sample. The percentage of these constituents in the individual sieve sizes along with their weighted averages appear in TABLE 1 (SAD FORM 3195). A description of the constituents comprising the sand is given below.

SAND COMPOSITION

Shell and Skeletal Debris

2. Intact shells and shell fragments including a variety of fragmented exoskeletal debris occur predominantly in the plus No.40 (0.42mm) sieve sizes. Traces of this group also appear in the smaller sizes. This group appears to be abundant in the sand but actually makes up only 6% of the sample. The shelly constituents are tan to dark gray and make up about 25% of the whole group. The fragmented hard-parts or exoskeletal constituents are typically tan and include a variety of marine life. The most abundant appears to be fragmented sand dollars. A few clear, calcareous needle-like spicules are also included in this group.

Quartz

3. Quartz particles occur in abundance. This group makes up 94% of the natural sand. Beginning with the No.40 (0.42mm) sieve size, quartz particles are subround to subangular in shape. With decreasing size, these become more angular and irregular in shape. Typical particles comprising the quartz group are clear and glassy (about 60%), while the rest are primarily translucent. Well rounded frosted grains are present, but are not abundant.

All Others

4. Heavy minerals (minerals with specific gravities > 2.65), and soft weathered particles make up less than 1% of the sand. Of this group, the heavy mineral suite is significant. These make up 4% of the No. 200 sieve size fraction but are essentially absent in the larger size fractions. Tourmaline, sphene, epidote and amphibole are examples of the heavy mineral suite.

Attached
TABLE 1 (SAD Form 3195)

RAY WILLINGHAM

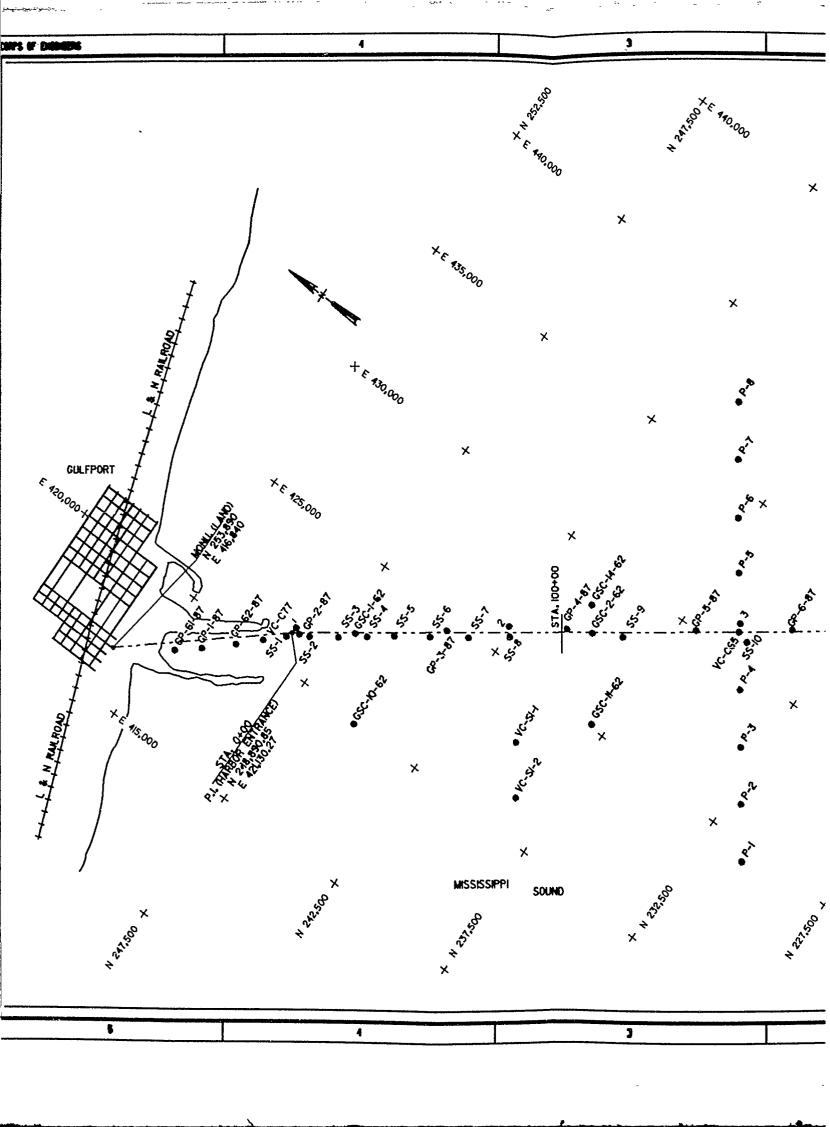
Geologist

TABLE 1

U. S. ARMY ENGINEER DIVISION LABORATORY, SOUTH ATLANTIC CORPS OF ENGINEERS MARIETTA, GEORGIA AGGREGATE COMPOSITION AND CONDITION REPORT					Mo PRO Gu	DISTRICT Mobile PROJECT Gulf Port Harbor CONTRACT NO.								
SOURCE LAB. NO.				DAT	DATE REPORTED									
GP-15-87, Jar Sample No. 1		57/3538	17	Nov	ember	<u>^ 198</u>	7							
DATE RECEIVED 31 July 1987	REQ. NO. 42-87-F&M					WORK ORDER NO. 5327								
DESCRIPTION: Natural Sand		Weighted	SIEVE SIZE (% Retained)											
magarur gana		Average (Percent)	#1n	#20	# 40	#60	#100	# 200	Dan					
	Sample Gradation	//////		2	11	50			ran 1					
		<i>XIIIII</i>	1											
Shell & Skeletal Debris		6	100	100	8	3_	2	1_	-					
Quartz		94	-	Tr	92	97	98	95	-					
Heavy Minerals		Tr	-	-		Tr	Tr	4	-					
Other (Soft, Wea.)		Tr	-	-		Tr	Tr	-	-	ļ				
CONDITION: Percent Flat and E														
				<u> </u>										
							-							
REMARKS.			L	<u> </u>	<u> </u>	l	L	l			l			
Petrographic analysis based	on examination	of 300 pa	rtic	les v	vhene	ver	poss	ible.	•					
The sand sample was washed prior to anlaysis.														
DEDODTED BY														
REPORTED BY: PHO	ONE D WIRE	TESTED BY	RW			CH	ECKE	D BY WL	T		}			
DATE	SAMPEED BY	1												
		L												

SAD FORM 3195 1 Dec 81 LAYOUT OF BORINGS

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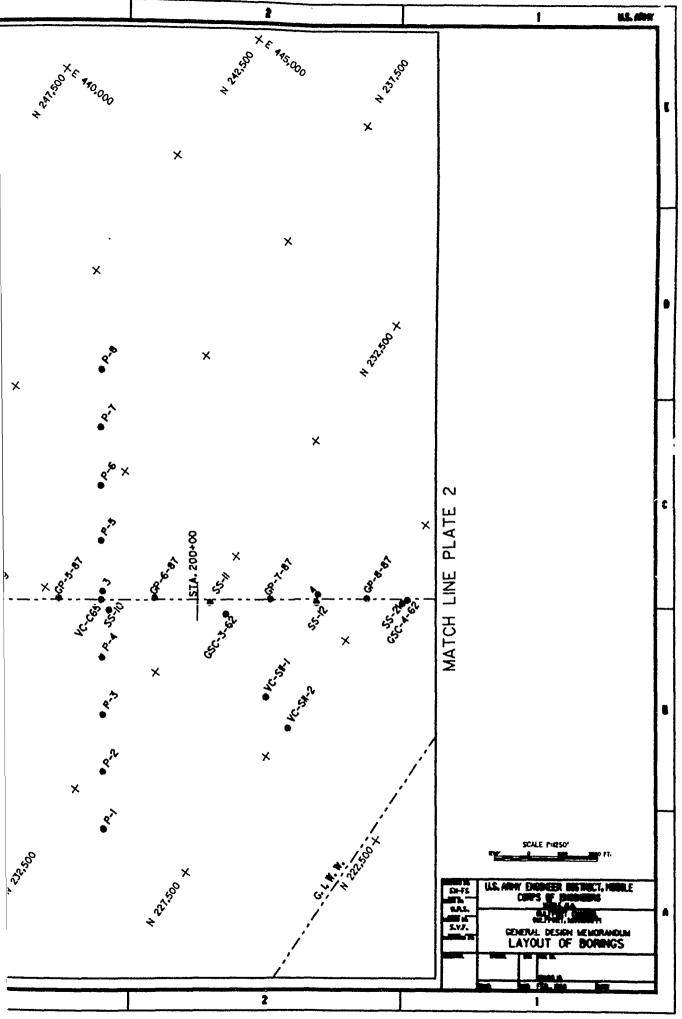
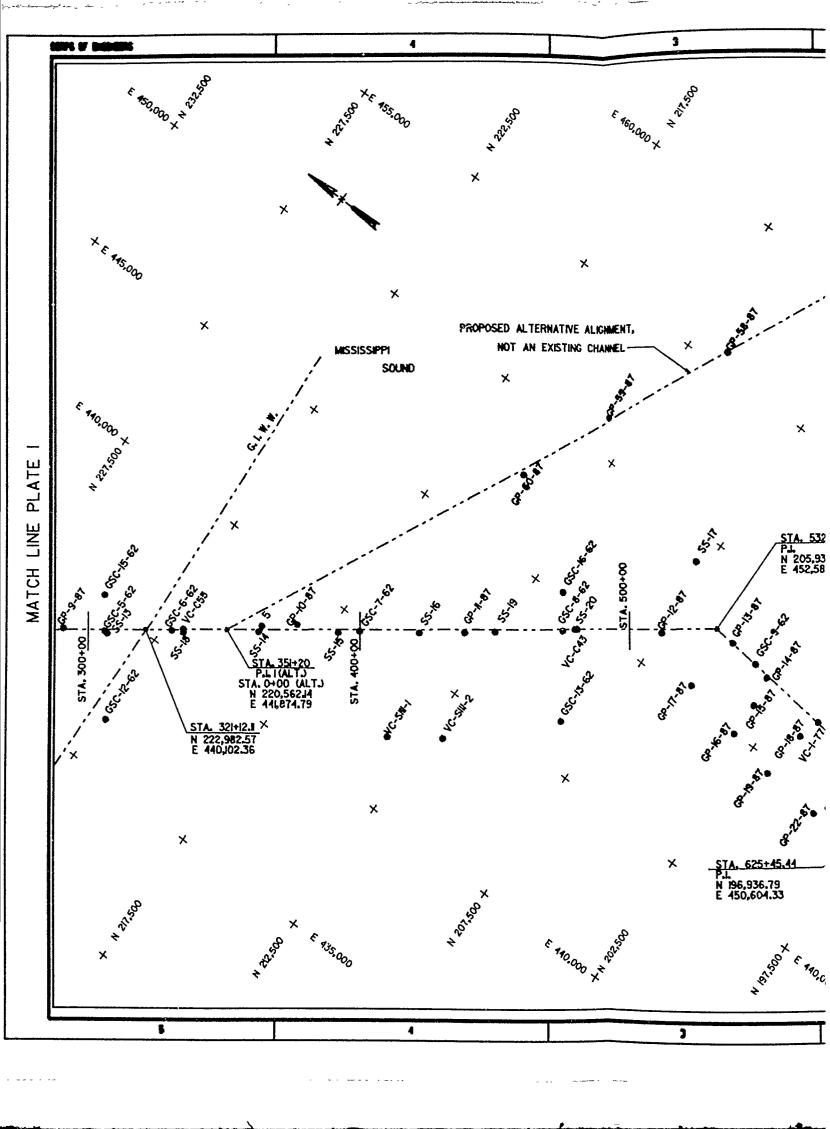
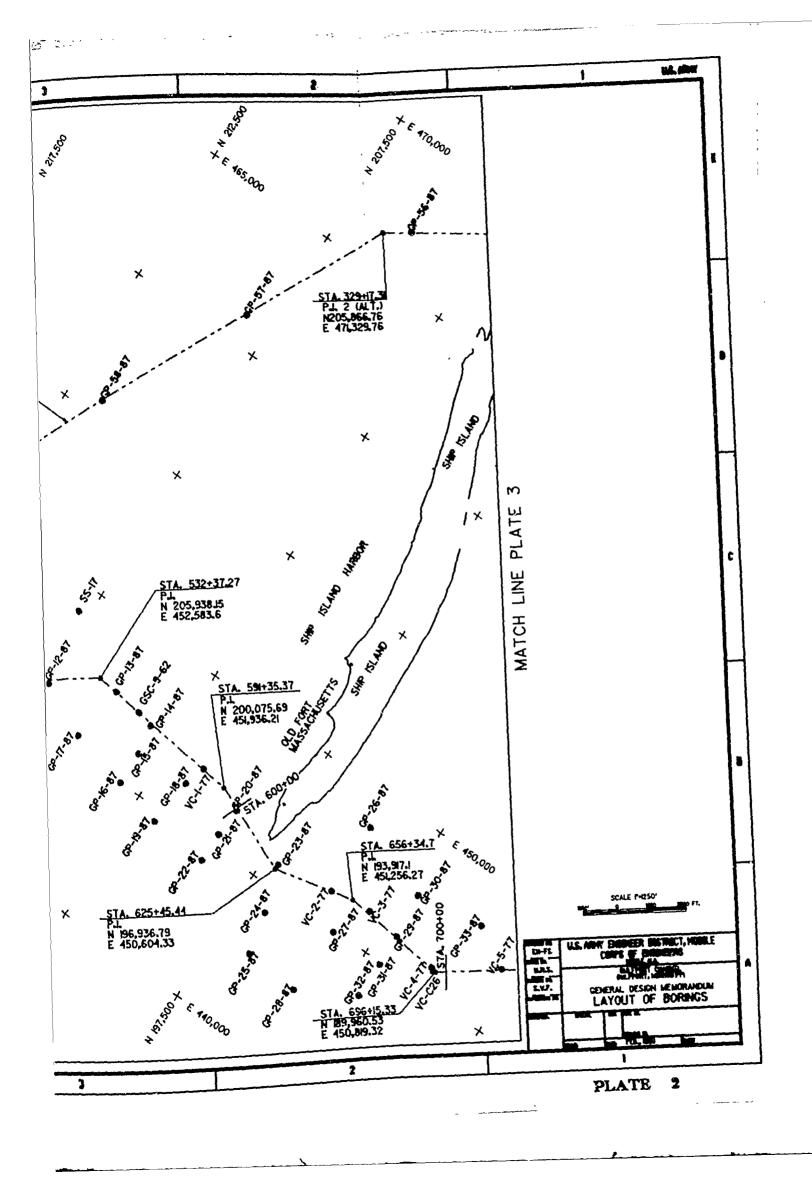
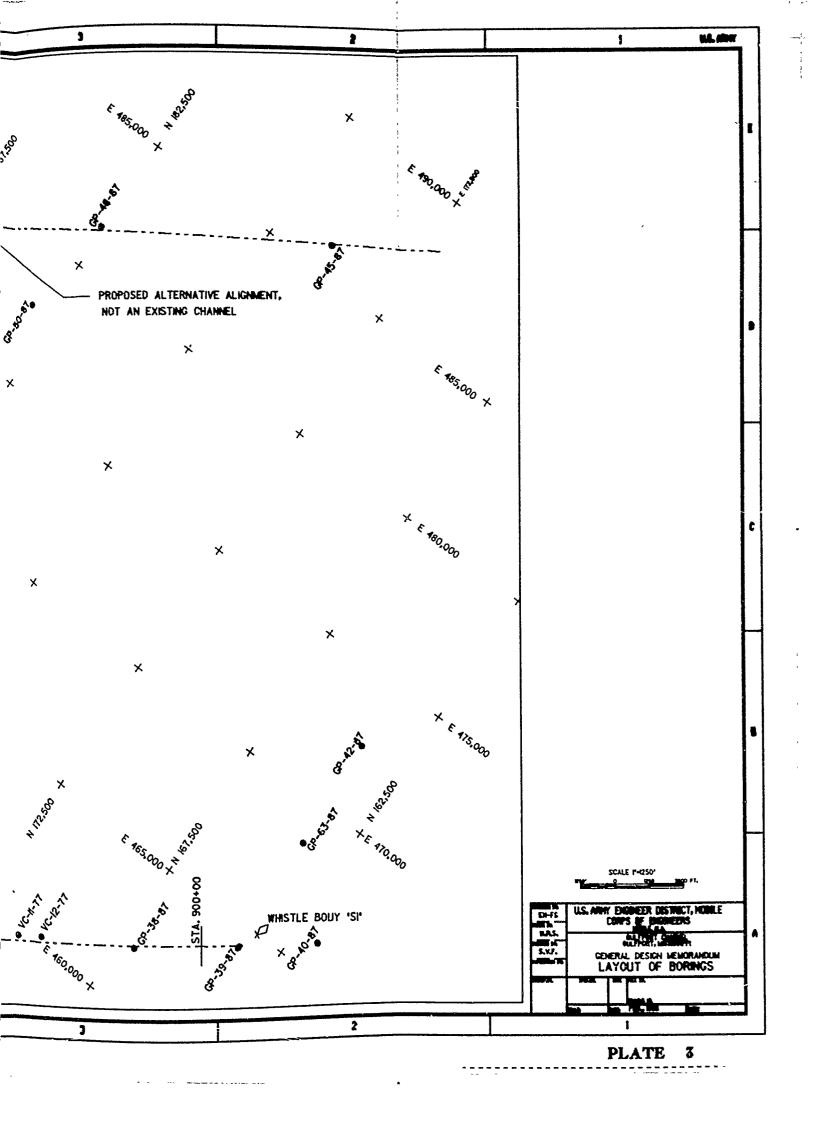


PLATE 1

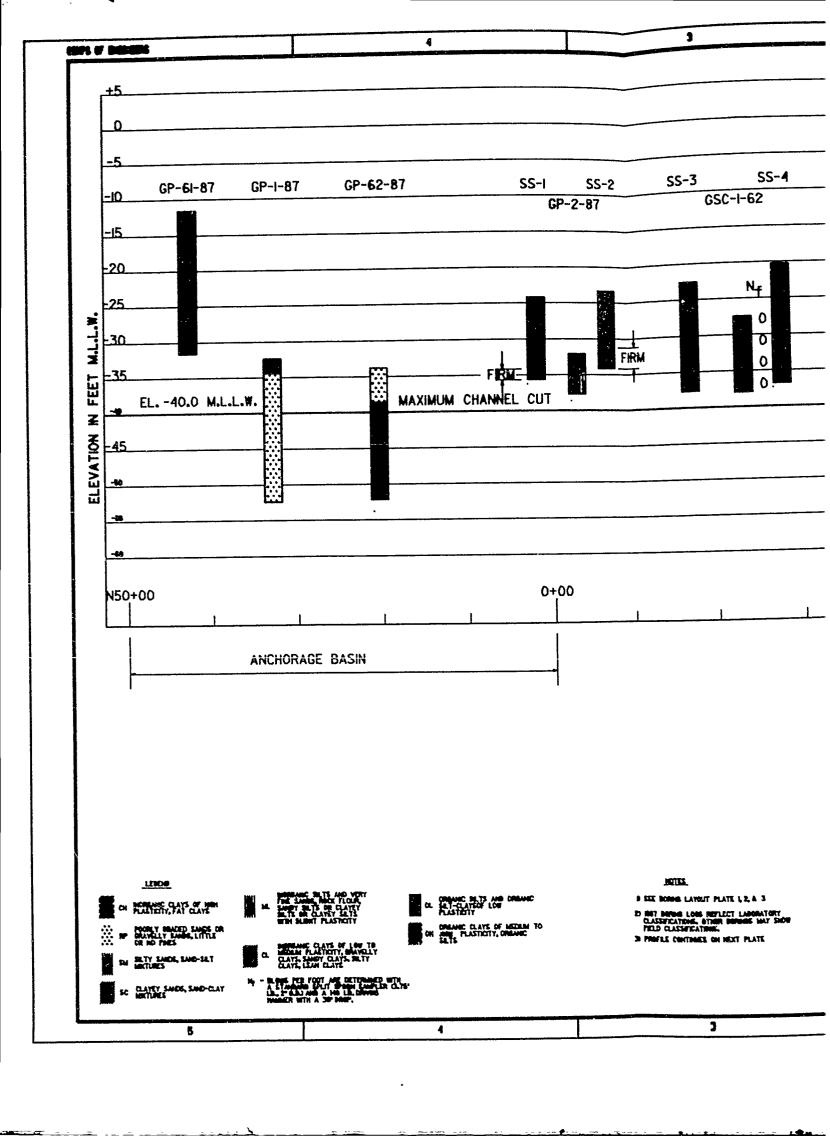


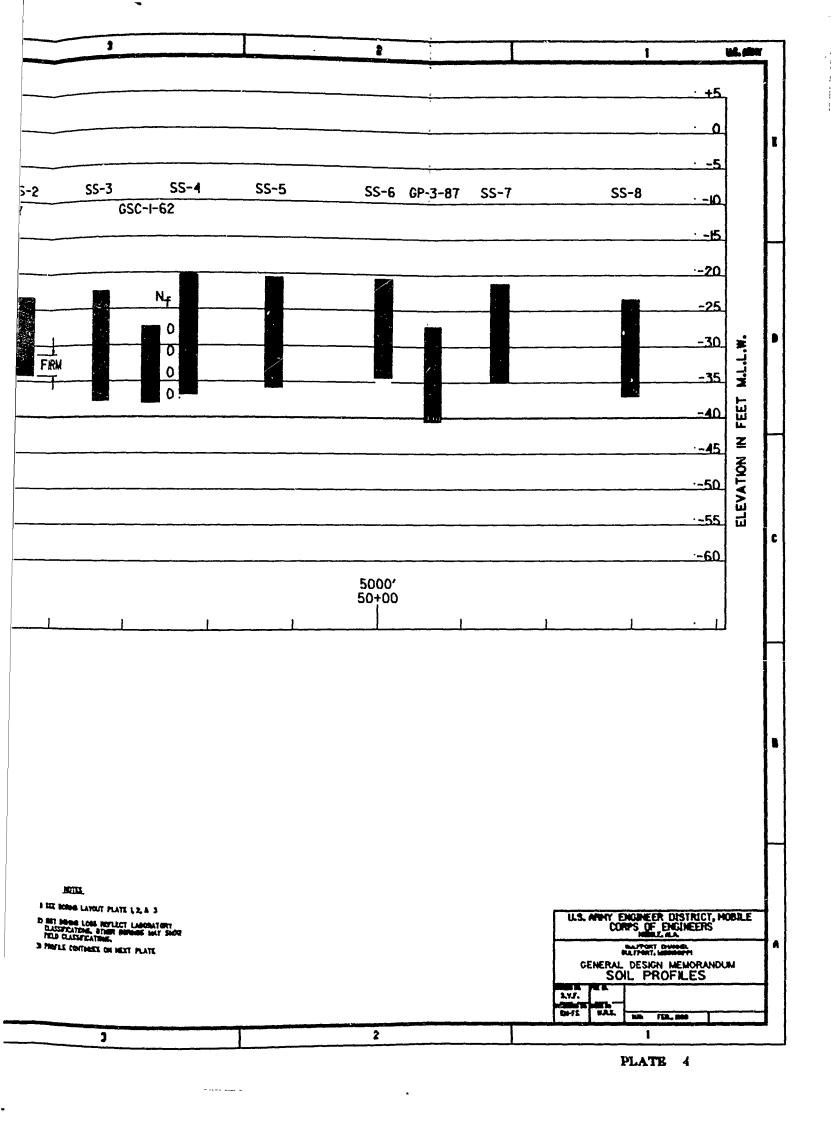


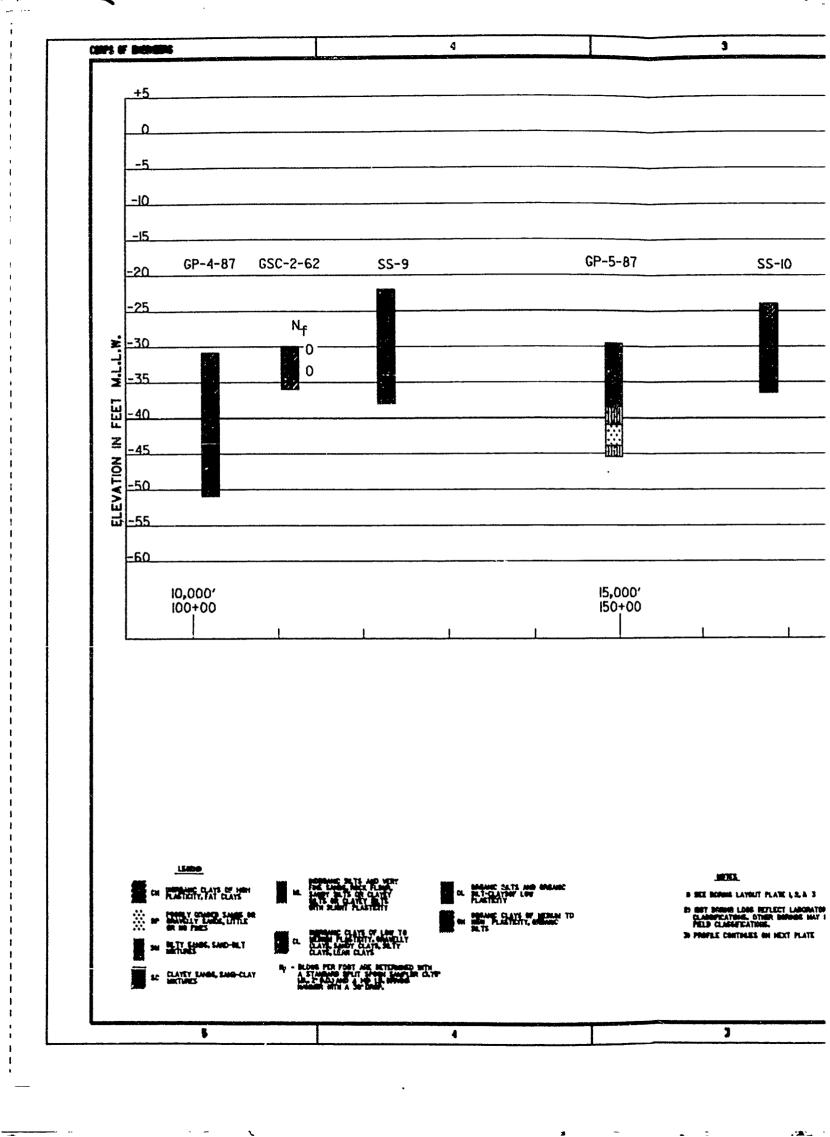


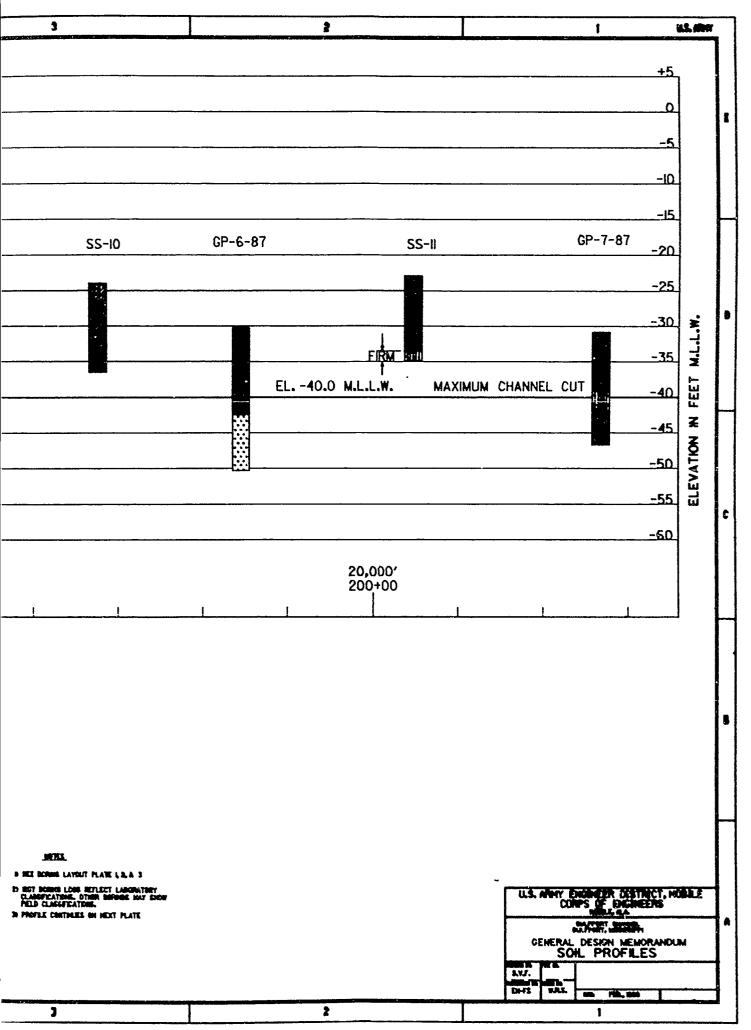
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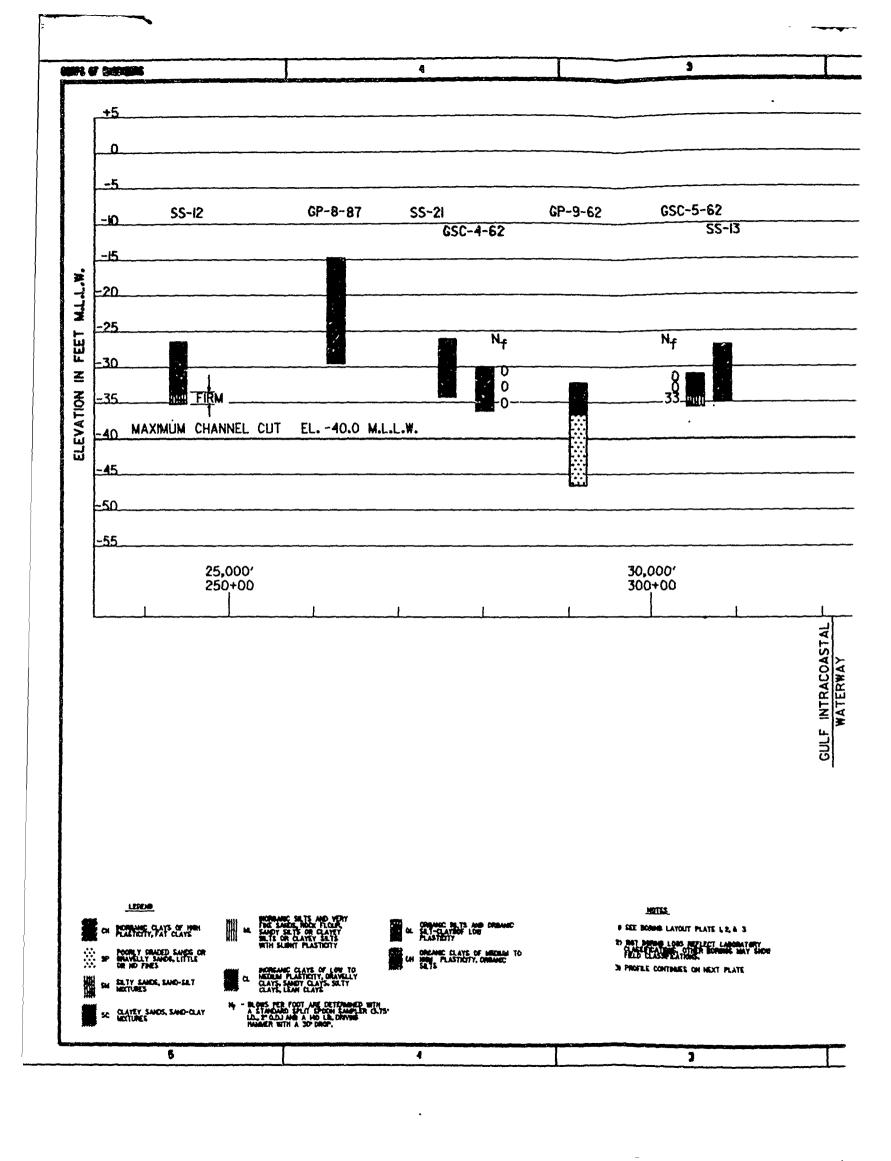
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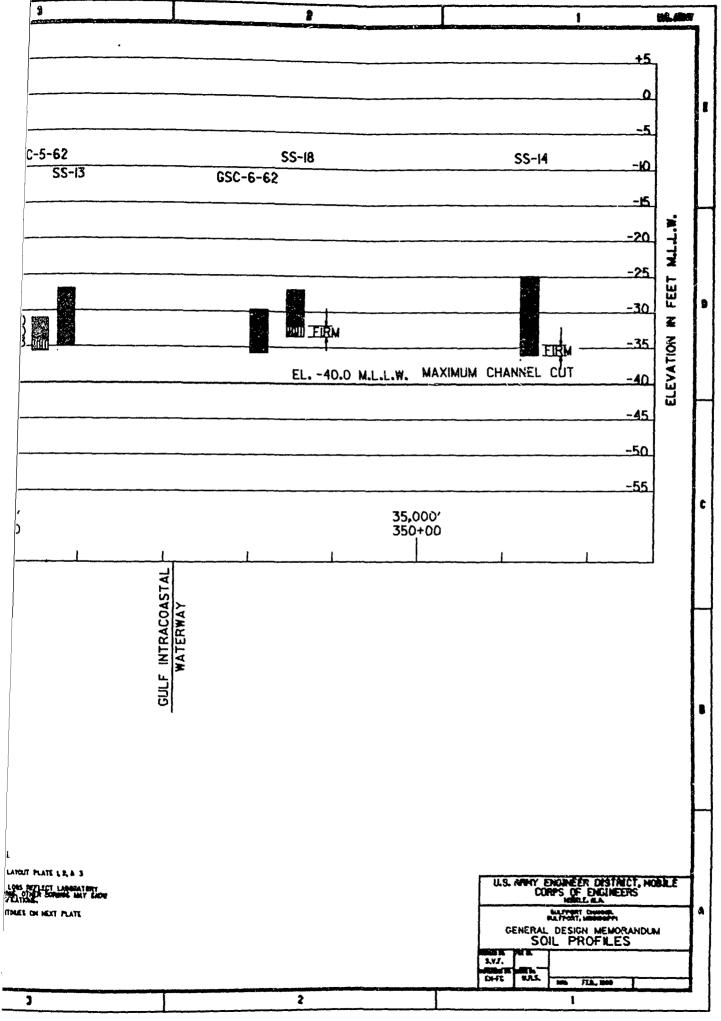
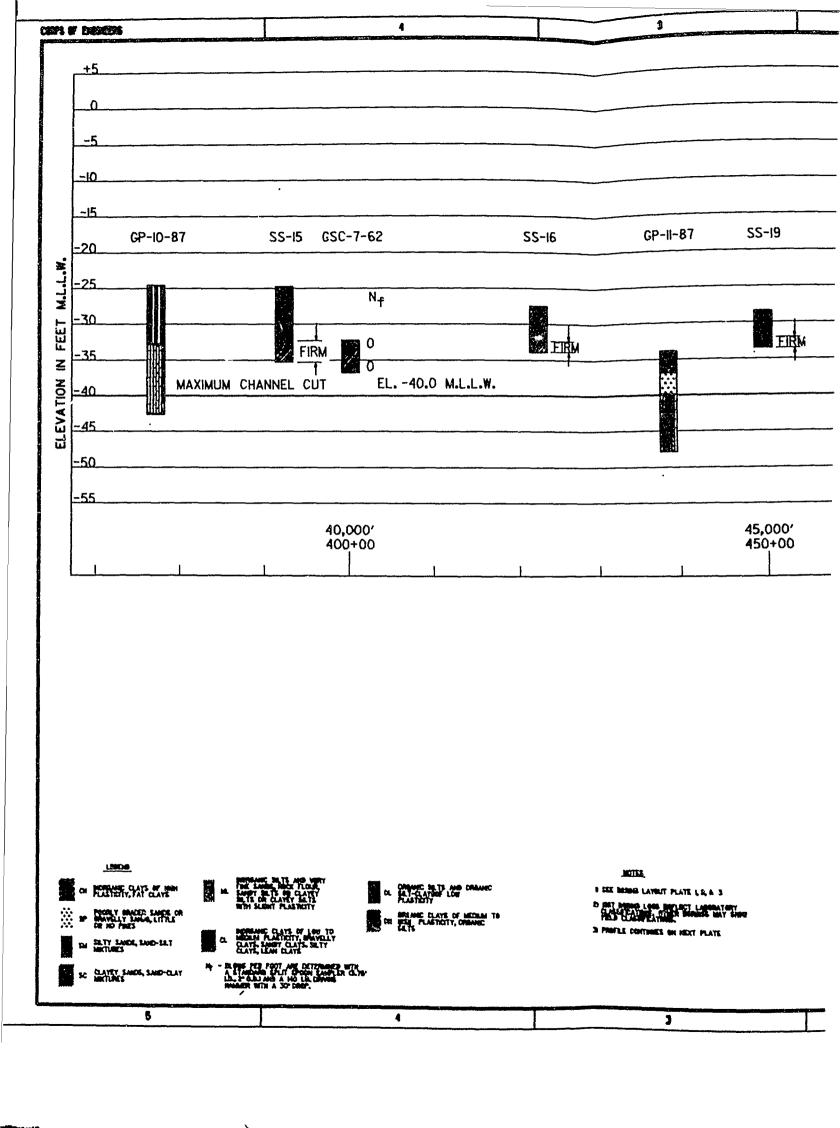
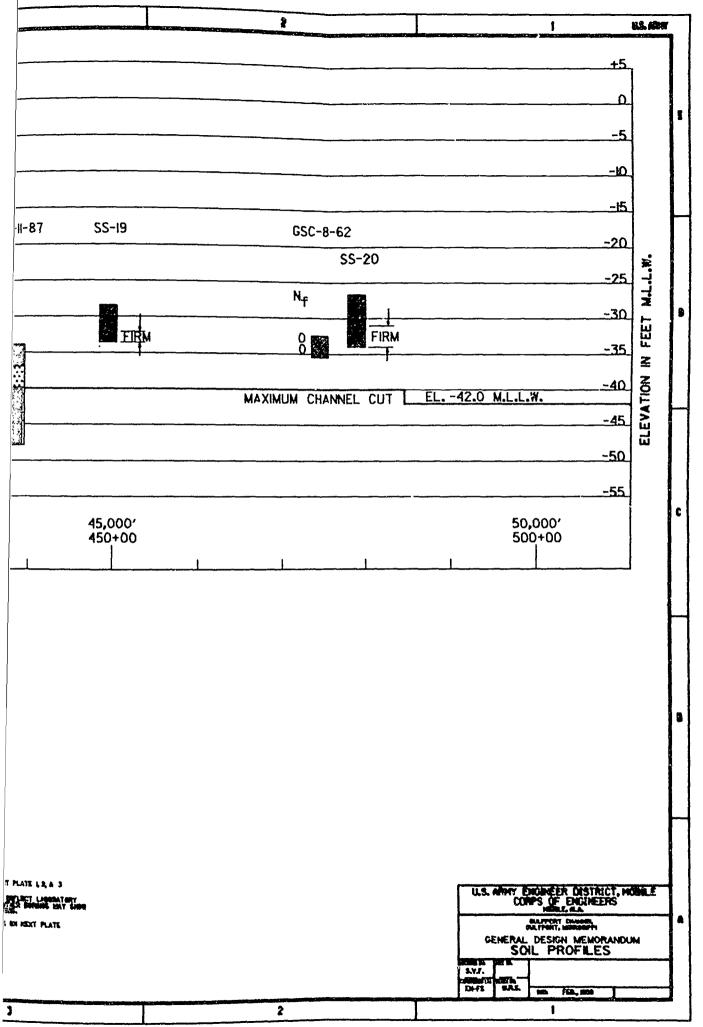
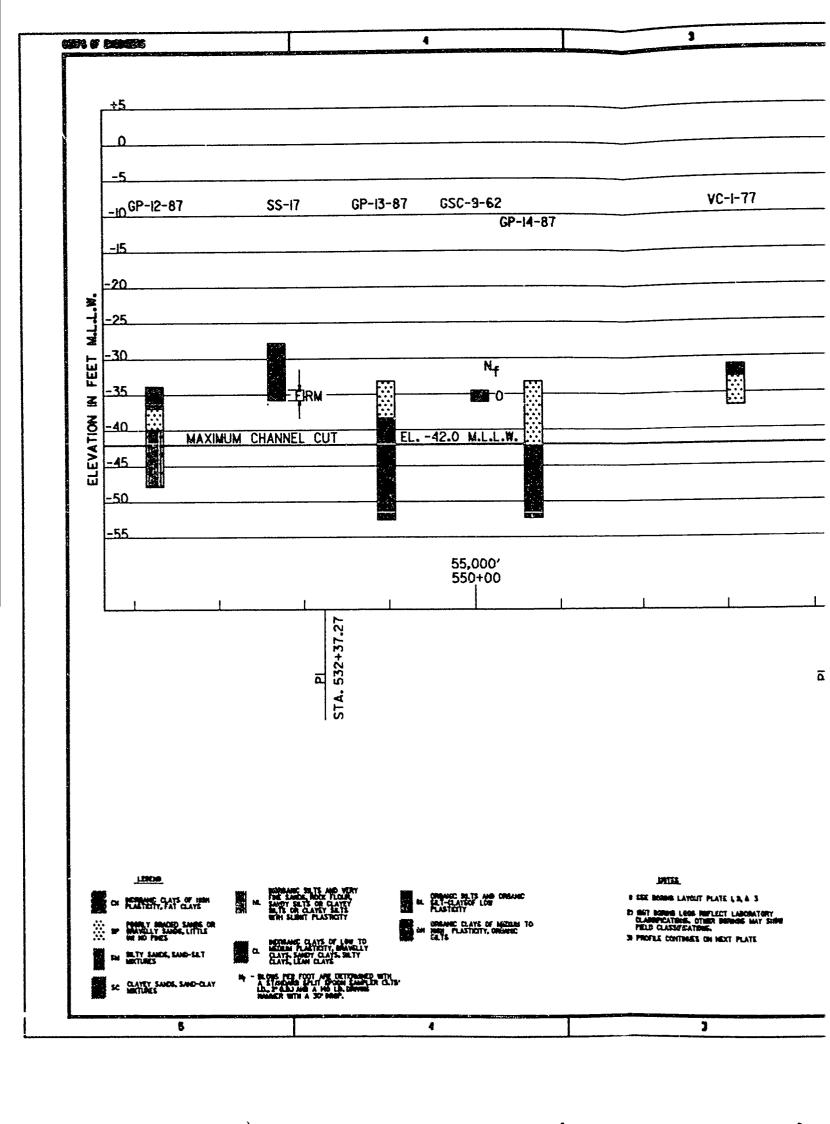
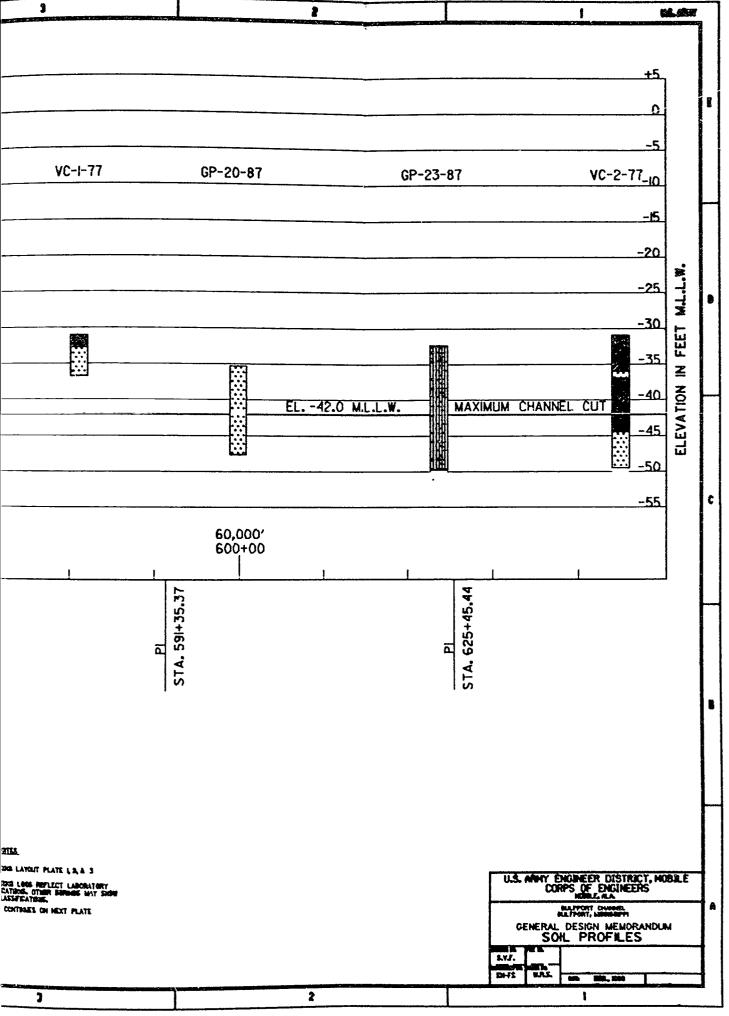


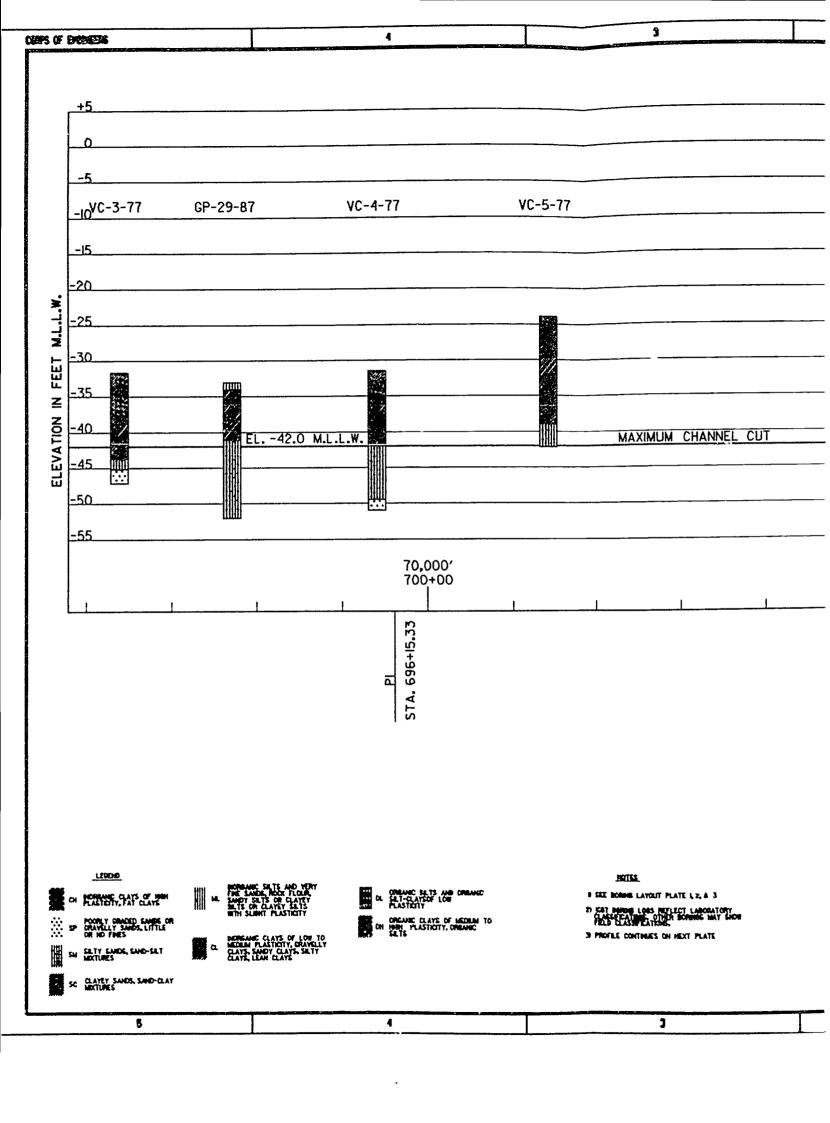
PLATE 6

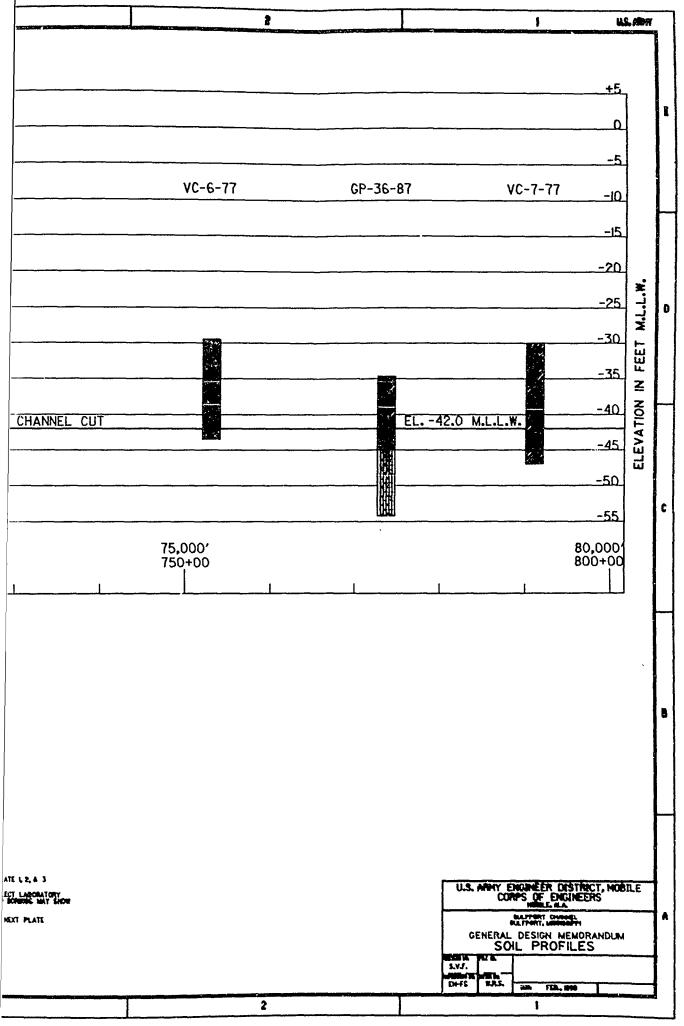


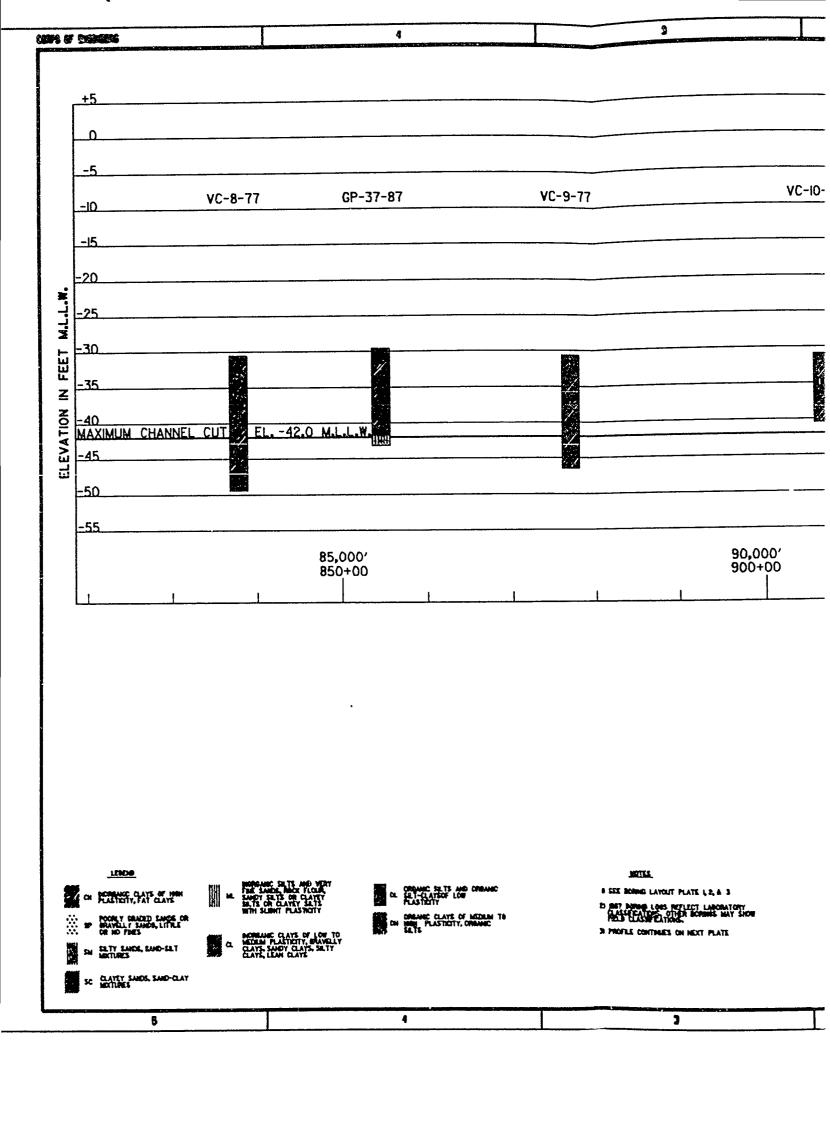


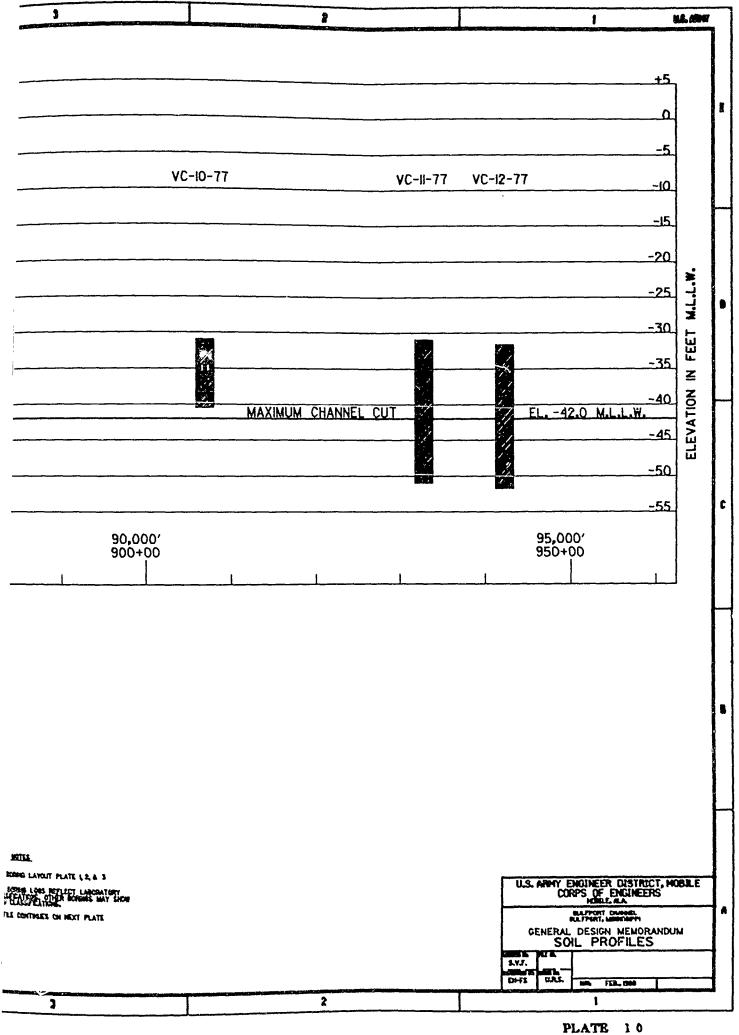


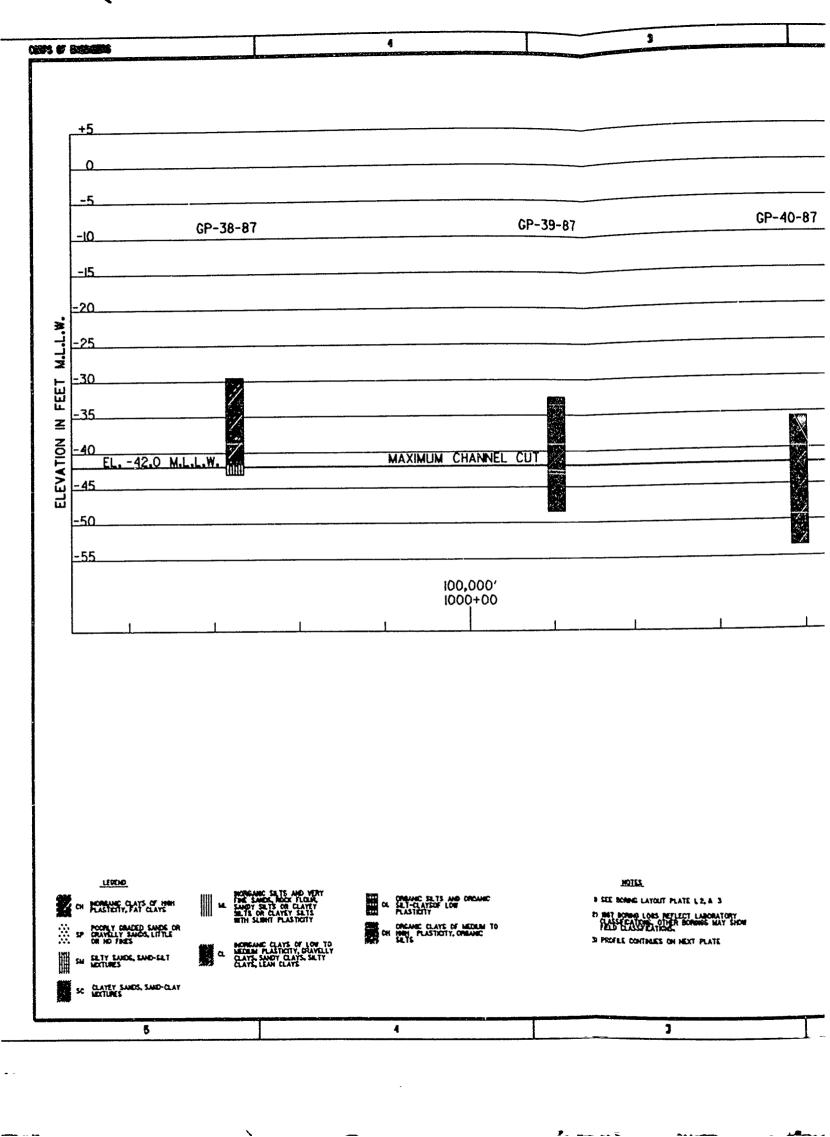












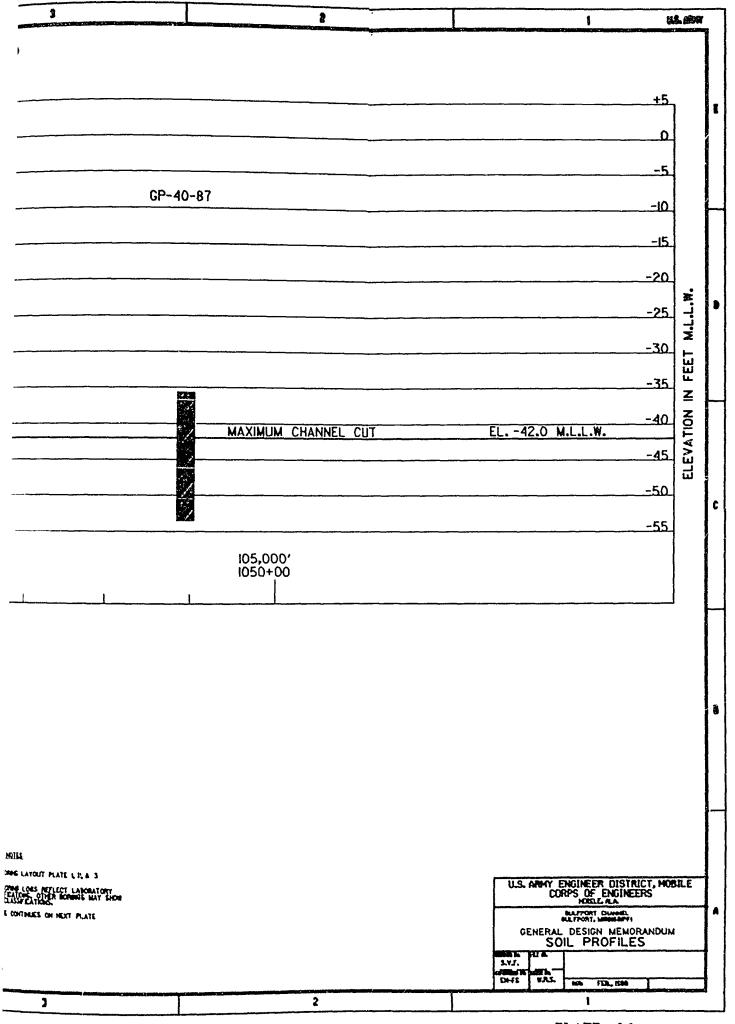


PLATE 11

